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(54) Title: ISOPENICILLIN N SYNTHETASE AND DEACETOXYCEPHALOSPORIN C SYNTHETASE ENZYMES AND METHOD

(57) Abstract

A three-dimensional structure is described of a complex of isopenicillin N synthase (IPNS) with Fe and its substrate ACV. This structure is used to design modified enzymes IPNS, DAOCS, DACS, DAOC/DACS and other related enzymes of the penicillin and cephalosporin biosynthesis pathway, which modified enzymes may accept unnatural substrates or improve production efficiency or produce improved products. Specific modifications of specific amino acid residues are proposed and exemplified.

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ISOPENICILLIN N SYNTHETASE AND DEACETOXYCEPHALOSPORIN C SYNTHETASE ENZYMES AND METHOD

5 Introduction

All commercially used penicillin and cephalosporin antibiotics and their derivatives are produced from fermentation derived materials containing a β-lactam ring. A range of organisms, including both prokaryotes and eukaryotes, and conditions may be used for their fermentation. Some are produced directly by fermentation followed by isolation. Others are produced by modification of materials produced by fermentation. Commercially used cephalosporins (also known as cephems) may be produced by modification of either fermentation derived penicillins or cephalosporins.

The biosynthetic pathway to the penicillins and cephalosporins has been extensively studied and involves the following steps (Scheme 1):

- 1. Three amino acids (\underline{L} - α -aminoadipic acid, \underline{L} -cysteine, \underline{L} -valine) are condensed to form a tripeptide: \underline{L} - δ - α -aminoadipoyl- \underline{L} -cysteinyl- \underline{D} -valine (ACV). During this process the \underline{L} -valinyl residue is converted to a \underline{D} -valinyl residue. This process is catalysed *in vivo* by the enzyme ACV synthetase and is common to both penicillin and cephalosporin biosynthesis.
- 2. ACV is converted to isopenicillin N in a step catalysed by the enzyme isopenicillin N synthase (IPNS). This step is common to both penicillin and cephalosporin biosynthesis.
 - 3. In some organisms (e.g. Penicillium chrysogenum and Aspergillus nidulans) isopenicillin N is converted by exchange of its $\underline{\mathsf{L}}$ - δ - α -aminoadipoyl side chain to penicillins with other side chains, which are normally more hydrophobic than the side chain of isopenicillin N. This

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conversion may be catalysed by an amidohydrolase/ acyltransferase enzyme. Examples of penicillins produced by this biosynthetic process include penicillin G (which has a phenylacetyl side chain) and penicillin V (which has a phenoxyacetyl side chain). These hydrophobic penicillins may be commercially produced by fermentation under the appropriate conditions.

- 4. In some organisms (e.g. Streptomyces clavuligerus and Cephalosporium acremonium) isopenicillin N is epimerised to penicillin N. This reaction is catalysed by an epimerase enzyme.
- 10 5. In some organisms (e.g. S. clavuligerus and C. acremonium) penicillin N is converted to deacetoxycephalosporin C (DAOC). This reaction is catalysed by deacetoxycephalosporin C synthase (DAOCS) in some organisms (e.g. Streptomyces clavuligerus) and by deacetoxy/deacetylcephalosporin C synthase (DAOC/DACS) in others (e.g. C.acremonium).
 - 6. In some organisms (e.g. *S. clavuligerus* and *C. acremonium*) DAOC is converted to deacetylcephalosporin C (DAC). This reaction is catalysed by deacetylcephalosporin C synthase (DACS) in some organisms (e.g. *S. clavuligerus*) and by deacetoxy/deacetylcephalosporin C synthase (DAOC/DACS) in others (e.g. *C. acremonium*).

Further biosynthetic steps to give other cephalosporin derivatives may also occur, e.g. in *C. acremonium* DAC may be converted to cephalosporin C and in *Streptomyces spp*. DAC may be converted to cephamycin C. The genes encoding for each of the enzymes catalysing steps 1-6 above have been identified and sequenced.

Fermented penicillins, cephalosporins, their biosynthetic intermediates, and their derivatives may be of use as antibiotics or as intermediates in the production of antibiotics. Penicillins with hydrophobic side chains may be used for the preparation of cephalosporins or intermediates used in the preparation of cephalosporins, *e.g.* penicillins

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(including, but not exclusively, penicillin G and penicillin V) may be used to prepare C-3 exomethylene cephams which may be used as intermediates in the preparation of the commercial antibiotics, *e.g.* Cefachlor (Scheme 2).

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For reviews see J. E. Baldwin and C. J. Schofield, in 'The Chemistry of β-lactams (Ed. M. I. Page), Chapter 1, Blackie, London 1992; Aharonowitz *et al*, Ann. Rev. Microbiol., 1992, <u>46</u>, 461; Cooper, Bioorg. Med. Chem., 1993, <u>1</u>, 1; Baldwin and Abraham, Nat. Prod. Report., 1989, <u>5</u>, 129; Baldwin, J. Heterocyclic. Chem., 1990, <u>27</u>, 91.

10 Summary of Invention

This invention is based on our determination of the three-dimensional structure of IPNS. That the structure of IPNS complexed to manganese has been determined, was reported by some of us in Nature, Volume 375, 22 June 1995, pages 700-704. That publication did not include the co-ordinates of the individual amino acid residues, and these are now provided. Scheme 2 of that paper contains the amino acid sequence of IPNS, and also DACS, DAOCS and DAOC/DACS and other structurally related enzymes, each of which is published in Swissprot or Genbank or other database.

We have now determined the structure of a complex of IPNS with Fe and ACV which is a substrate for the enzyme (see Scheme 1). In solution it is this complex, and not the IPNS-Mn complex, that is actually formed during step 2 of the biosynthesis of bicyclic β -lactams. Because the amino acid sequences of DAOCS, DAOC/DACS, DACS and other oxidases and oxygenases are so similar to that of IPNS, it is reasonable to expect that the structures of those enzymes are at least similar to that of IPNS.

We have also determined the structures of complexes of IPNS with Fe and with various analogues of ACV (in which another amino acid replaced L-valine), specifically AC glycine, AC aminobutyrate, AC

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alanine and AC proparglyglycine. These structures have been determined in the absence and in the presence of nitrous oxide NO. Exposure of these complexes to dioxygen alters the structures, and these altered structures have also been determined by us. From information given herein about the IPNS-Fe-ACV complex, a skilled reader is able to make and characterise the other complexes referred to in this paragraph, so structural details of those other complexes are not given herein.

Thus in one aspect the invention provides Isopenicillin N synthase (IPNS) in the form of: a complex with Mn having a structure designated by the X-ray co-ordinates in Table 2; or a complex with Fe and its substrate, said complex having a structure designated by the X-ray co-ordinates in Table 3.

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In another aspect the invention provides Isopenicillin N synthase (IPNS) in the form of: a complex with Fe and an analogue of its substrate, either in the absence or in the presence of nitrous oxide or dioxygen, said complex having a structure designated by X-ray coordinates analogous to that set out in Table 3.

An analogue of an IPNS substrate is a substrate oxidised by IPNS to give preferably (but not exclusively) a bicyclic compound containing a β -lactam ring.

Table 2 sets out co-ordinates of individual amino acid residues in a crystalline complex of IPNS with manganese.

Table 3 sets out co-ordinates of individual amino acid residues in a crystalline complex of IPNS with Fe and ACV.

Knowledge, derived from the X-ray co-ordinates, of the three-dimensional structures of this family of related enzymes permits a skilled worker to identify specific amino acids that might be changed in order to alter or improve the properties of the enzyme in some way. While it is not possible from 3D structural information alone to predict that a specific amino acid mutation will produce a specific change in the properties of the

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enzyme, it is possible to identify a rather small number of amino acid residues where modification may be expected to change/improve the properties of the enzyme. The problem of identifying useful amino acid mutations is thus reduced to a level where it can readily be tackled by routine screening procedures.

Thus in one aspect the invention provides use of the three dimensional structure of a first enzyme selected from IPNS, DAOCS, DACS, DAOCS/DACS and other related enzymes of the penicillin and cephalosporin biosynthesis pathway, for the modification of a second selected from IPNS, DAOCS, DACS, DAOCS/DACS and other related enzymes of the penicillin and cephalosporin biosynthesis pathway.

The three dimensional structure of a first enzyme may be the three dimensional structure of the IPNS-Fe-substrate complex referred to above. It may, however, also be that of DAOCS, DACS, DAOC/DACS or another oxygenase/oxidase related by sequence or structure (e.g. 1-aminocylopropane-1-carboxylic acid oxidase) to any of IPNS, DAOCS, DACS or DAOC/DACS. The structure of the IPNS-Fe-ACV complex may be derived from two or more crystalline polymorphs, all of which are envisaged. The structure may alternatively be of the enzyme in free form or in the form of some other complex such as with Mn, or with other Fe or ACV analogues, or enzyme inhibitors, or other enzyme modifiers. Preferably the second enzyme is the same as the first enzyme e.g. the 3D structure of IPNS is used as a basis for modifying IPNS. Alternatively the 3D structure of one first enzyme may be used as a basis for modifying a second structurally related enzyme.

Central to the elucidation of the structure of crystalline proteins is the discovery of conditions for the production of crystals with diffract X-rays to a sufficiently high resolution. Since the cofactors (e.g. Fe(II)) and substrates (e.g. ACV) of the family of enzymes to which IPNS, DAOCS, DACS, etc. belong are sensitive to modification by reaction with

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dioxygen, the crystallisation of these enzymes is preferably carried out under an anaerobic atmosphere or one containing only a very low concentration of dioxygen.

The modified enzyme(s) may be used in vitro or introduced via recombinant molecular biology techniques into an organism so that new materials can be fermented. It is recognised that multiple modifications may have to be made to an enzyme in order to change its substrate/product selectivity, and/or improve it efficiency. It is recognised that more than one modified enzyme may be used to effect the desired transformation. It is recognised that in order to change the nature of the enzyme-substrate/intermediate/product interactions at a particular enzymesubstrate/intermediate interface modifications may be made to the enzyme either immediately at the interface or away from it. It is recognised that the modifications may result in hybrid enzymes containing sequences from, e.g. IPNS and DAOCS or IPNS and DACS or any combination of IPNS, DAOCS, DACS or DAOCS/DACS or other related enzymes. It is also recognised that it may be desirable to further modify the organism in which the modified enzyme is to be introduced, e.g. by blocking a particular pathway in that organism (using the techniques of molecular biology) in order to modify flux through the desired/modified pathway, by introducing other enzyme activities, or by other modifications. The organism into which the modified enzyme will be used may or may not contain parts of the penicillin and cephalosporin biosynthetic machinery. The organism may already have been modified to optimise or minimise production of particular products or consumption of particular nutrients. More than one modified enzyme may be used in conjunction either in vitro or in vivo in an organism for the production of desirable products.

While modifications for numerous specific purposes are discussed below, it is possible to say in general that useful modifications will be of three kinds:

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- Those which permit the enzyme to accept unnatural substrates [i.e. substrates not normally present in the organism (which may or may not be an organism in which the enzyme is naturally occurring) in which the enzyme is operating] for the preparation of new or commercially valuable anti-bacterial materials or intermediates for the production of pharmaceutical products;
- Those which enable the enzyme to produce unnatural products [i.e. products not naturally produced in the organism in which the enzyme is operating, including 3-exomethylene cephams and cephalosporins with hydrophobic side chains at the C-7 position such as phenylacetamido or phenoxyacetamido, or other unnatural side chains such as adipoyl] or improve the production of natural products of commercial value.
- Those which enhance the ability of the enzyme to produce
 useful products. For example DAOCS is known to catalyse the production of phenylacetylcephalosporin C from penicillin G (Baldwin *et al.*, Proceedings of the 7th International Symposium on the genetics of Industrial Micro-organisms, Abstract, p262, 1994). However, this conversion is much less efficient than the DAOCS catalysed conversion of penicillin N to DAOC. Modifications made to DAOCS may increase the efficiency of its catalytic conversion to penicillin G.

In another aspect this invention provides modified enzymes that result from application of the aforementioned techniques. These are enzymes having significant (as defined below) sequence and thus structural similarity with IPNS. Thus, structures of these enzymes may be predicted on the basis of the IPNS structures. Preferably there will be sequence similarity/identity between most of the modified enzyme and a major part of IPNS. Previous sequence comparisons (Roach *et al.*, Nature, 1995, 375, 700), using pairwise comparisons of the sequences followed by single linkage cluster analysis show that IPNS, DAOCS, DACS and

DAOC/DACS cluster with standard deviations scores of >5.0 (Barton and Sternberg, J. Mol. Biol., 1987, 198, 327). Scores over 5.0 and preferably over 6.0 indicate that the sequence alignments will be correct within all or most of the protein secondary structural elements (Barton, Methods in Enzymol., 1990, 183, 403); thus they have significantly similar sequences 5 and hence structures. Note there are other criteria which may be used to ascertain significant sequence similarity for example % identity or % similarity of amino acids possessing side chains with similar physicochemical properties (Barton and Sternberg, J. Mol. Biol., 1987, 198, 327). Thus, on the basis of sequence comparisons it is possible to predict the 10 structure of one enzyme (e.g. DAOCS, DACS or DAOC/DACS) from another (e.g. IPNS). Further, it is recognised that although two enzymes may have structures in which secondary structural elements are largely or wholly conserved, differences in the structures of the two enzymes may result from the side chains of the amino acids forming the secondary 15 structural elements. These differences, which may alter the substrate/product selectivities of the compared enzymes, may be predictable if the three dimensional structure of one of the enzymes is known. An example: the natural substrate for IPNS, ACV, has an Lconfigured aminoadipoyl side chain, whereas the substrates for DAOCS. 20 DACS and DAOC/DACS, i.e. penicillin N and DAOC, have D-configured aminoadipoyl side chains. This difference in selectivity may result from the different arrangement of amino acid side chain binding sites between IPNS and DAOCS, DACS, and DAOC/DACS, Further, it is recognised that there 25 may be significant variations between enzymes which show significant sequence/structural similarity (i.e. with standard deviation scores >5.0) in exterior regions of the enzymes, e.g. in loops and at the N- and C- termini. The relative importance of these regions in substrate binding may be predicted by comparison with a known crystal structure of an enzyme with significant sequence similarity. 30

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In one aspect, at least one of the following amino acid residues is modified:

R287; R87; R88; Y189; S183; Y91; F285; Q330; T331; V185; L106; C104; V217; L324; L317; I325; L321; S210.

The residue numbering herein is taken from the paper Nature, 1995, 375, 700-704 referred to above. These modifications are expected to have an effect on side chain substituents at the 6-position of the penicillin molecule, or the 7-position of the cephalosporin molecule. In each case, the stated amino acid residue may be replaced by the residue of any other amino acid. But in order to change the selectivity of the enzyme to accept substrates with hydrophilic or neutral side chains, the replacement is preferably to make the side chain binding pocket more hydrophobic.

In another aspect at least one of the following amino acid residues is modified:

V272; L231; L223; P283; T221; F211; F285; Q330; I187; V185; Y189; R279; S281; N230; Q225; N252; S210.

These modifications are expected to be associated with changes in the ring structure of the penicillin/cephalosporin molecule.

There follow examples of specific changes envisaged as a result of these modifications.

- a) The structure of IPNS is modified in its active site region to accept unnatural substrates to produce penicillins or other bicyclic β -lactams of commercial use with hydrophobic side chains (Scheme 5).
- The process may include the following modifications (other modifications based on the use of the crystal structure of IPNS are not excluded):

Note, R87F/A/G/V/L/I/T/W/M/C/N/Q/P/S/T/E/D/R/K/H indicates that residue arginine-87, using the *Aspergillus nidulans* IPNS numbering scheme is modified to phenylalanine or alanine etc. See Roach et al Nature, 1995, 375, 700-704.).

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R287F/A/G/V/L/I/W/M/C/N/Q/P/S/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/E/D/K/H/Y Y189F/A/G/V/L/I/W/M/C/N/Q/P/S/E/D/K/H/R S183F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y Y91F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/R F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y Q330F/A/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y T331F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y V185F/A/G/L/I/W/T/M/C/N/P/S/E/D/R/K/H/Q/Y L106F/A/G/V/I/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y C104F/A/G/V/L/I/T/W/M/N/P/S/E/D/R/K/H/Q/Y V217F/A/G/L/I/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y L324F/AJG/V/I/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y L317F/A/G/V/I/TW/M/C/N/P/S/E/D/R/K/H/Q/Y 1325F/A/G/V/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y L321F/A/G/V/I/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y S210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y

Note in these and in subsequently proposed modifications the
amino acid residue numbering scheme is based upon that used for
A. nidulans IPNS and the sequence alignments in Roach et al Nature,
1995, 375, 700-704, e.g. arginine-87 in IPNS remains named as arginine87 for other aligned enzymes.

It is recognised that modifications to the side chain binding
interactions and the valinyl binding interactions of IPNS may have to be
made in conjunction with each other or with other modifications in order to
produce a useful catalyst with the desired properties. Other modifications
based on the use of the three dimensional structures of IPNS, DACS,
DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of
these enzymes to their substrates, intermediates, modifiers, products or

inhibitors are not excluded.

b) The structure of IPNS is modified in its active site region to accept natural or unnatural substrates to produce bicyclic β-lactams other than penicillins of commercial use (Scheme 6). For example the region of IPNS interacting with the valinyl residue of ACV may be modified such that IPNS produces 3-exomethylenecephams from ACV or other substrates for IPNS. The process may include the following modifications.

10 V272F/A/G/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L231F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y P283F/A/G/V/I/L/W/M/C/N/S/T/E/D/R/K/H/Q/Y T221F/A/G/V/I/LW/M/C/N/P/S/E/D/R/K/H/Q/Y F211A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y 15 F285A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y Q330F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Y 1187F/A/G/LW/T/M/C/N/P/S/T/E/D/R/K/H/Q/Y V185F/A/G/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y Y189F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q 20 R279F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y S281F/A/G/V/I/L/W/M/C/N/P/T/E/D/R/K/H/Q/Y N230F/A/G/V/I/L/W/M/C/P/S/T/E/D/R/K/H/Q/Y Q225F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Y N252F/A/G/V/I/LW/M/C/P/S/T/E/D/R/K/H/Q/Y 25 S210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y

It is recognised that modifications may have to be made in conjunction with each other or with other modifications to IPNS in order to produce a useful catalyst with the desired properties. Other modifications

based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

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c) The side chain binding interactions of IPNS are modified such that 6-aminopenicillins or other bicylic β-lactams may be produced *in vitro* or *in vivo* from dipeptides, such as cysteinyl-valine or other dipeptides (Scheme 7). Dipeptides may be produced (either *in vitro* or *in vivo*) by the use of a peptide synthetase enzyme, such as ACV synthetase (which may be modified by mutagenesis or other techniques to optimise dipeptide production) or by chemical synthesis. The process may include the following modifications:

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R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y Y189F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/R S183F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y Y91F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/R F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y Q330F/A/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y T331F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y V185F/A/G/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L106F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y C104F/A/G/V/L/I/W/M/N/P/S/T/E/D/R/K/H/Q/Y V217F/A/G/L/I/M/M/C/N/P/S/T/E/D/R/K/H/Q/Y L324F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y I325F/A/GN/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y

S210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

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d) The side chain binding interactions of IPNS are modified such that penams without any substituent at the 6-position or other bicylic β-lactams, without any substituent at the 6-position, may be produced *in vitro* or *in vivo* from dipeptides or amide substrates, such as 3-mercaptopropionyl-valine or other dipeptides or amides (Scheme 8). The dipeptides or amides may be produced (either in vitro or in vivo) by the use of a peptide synthetase enzyme, such as ACV synthetase (which may be modified by mutagenesis or other techniques to optimise dipeptide production) or by chemical synthesis. The process may include the following modifications:

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R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y Y189F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/R S183F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y Y91F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/R F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y Q330F/A/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y T331F/A/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y V185F/A/G/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y

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L106F/A/GN/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
C104F/A/G/V/L/I/W/M/N/P/S/T/E/D/R/K/H/Q/Y
V217F/A/G/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L324F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
I325F/A/G/V/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
S210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, products, modifiers, or inhibitors are not excluded.

e) IPNS is modified to produce 3-exomethylenecephams with hydrophobic or other unnatural side chains (Scheme 9) (or other intermediates for use in the preparation of cephalosporin antibiotics, e.g. Cephachlor. The process will involve modification of both the side chain binding interactions of IPNS substrates and of the valine binding interactions and may involve the use of ACV as a substrate or the use of other unnatural substrates. The process may include the following modifications, which may be made in conjunction with each other:

R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y Y189F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/R S183F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y

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Y91F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/R F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y Q330F/A/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y T331F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y V185F/A/G/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y 5 L106F/A/G/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y C104F/A/GN/L/IM/M/N/P/S/T/E/D/R/K/H/Q/Y V217F/A/G/L/IW/M/C/N/P/S/T/E/D/R/K/H/Q/Y L324F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y 10 I325F/A/GN/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y V272F/A/G/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L231F/A/G/V/IW/M/C/N/P/S/T/E/D/R/K/H/Q/Y L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y 15 P283F/A/G/V/I/L/W/M/C/N/S/T/E/D/R/K/H/Q/Y T221F/A/G/V/I/L/W/M/C/N/P/S/E/D/R/K/H/Q/Y F211A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y I187F/A/G/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/V V185F/A/G/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y 20 Y189F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q R279F/A/G/V/I/LW/M/C/N/P/S/T/E/D/K/H/Q/Y S281F/A/G/V/I/LW/M/C/N/P/T/E/D/R/K/H/Q/Y N230F/A/G/V/I/L/W/M/C/P/S/T/E/D/R/K/H/Q/Y Q225F/A/G/V/I/LW/M/C/N/P/S/T/E/D/R/K/H/Y 25 N252F/A/G/V/I/L/W/M/C/P/S/T/E/D/R/K/H/Q/Y S210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y

It is recognised that these modifications may have to be
made in conjunction with each other or with other modifications in order to

produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded. The use of a modified IPNS in conjunction with another modified or unmodified oxygenase enzyme (e.g. DAOCS, DAOC/DACS) is not excluded.

f) The structure of DAOCS is modified in its active interactions region to accept substrates (*i.e.* penicillins with hydrophobic side chains, (including, but not exclusively, penicillin G and penicillin V) to produce cephalosporins or other bicyclic β-lactams of commercial use with hydrophobic or other unnatural side chains (Scheme 10). The process may include the following modifications:

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R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
F189R/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S
T91F/A/G/V/L/I/W/M/C/N/Q/P/S/E/D/K/H/R/Y
F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y
A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
P185F/A/G/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
T104F/A/G/V/L/I/T/W/M/N/P/S/E/D/R/K/H/Q/Y
M217F/A/G/L/I/T/W/C/N/P/S/E/D/R/K/H/Q/Y/V
1324F/A/G/V/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/L
I317F/A/G/V/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/L
R325F/A/G/V/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/I
Y321F/A/G/V/L/T/W/M/C/N/P/S/E/D/K/H/Q/Y/L

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R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be

made in conjunction with each other or with other modifications in order to
produce a useful catalyst with the desired properties. Other modifications
based on the use of the three dimensional structure of IPNS, DACS,
DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of
these enzymes to their substrates, intermediates, modifiers, products or
inhibitors are not excluded.

g) The structure of DAOCS is modified in its active interactions region to accept natural or unnatural substrates (including, but not exclusively, penicillin N, isopenicillin N, adipoyl penicillin) to produce bicyclic β-lactams other than cephalosporins of commercial use. For example the region of DAOCS interacting with the thiazolidine ring of its natural substrate penicillin N may be modified such that the modified DAOCS produces 3-exomethylenecephams from penicillin N, penicillin G, or penicillin V, or other substrates for DAOCS (Scheme 11). The process may include the following modifications:

V272F/A/G/I/LW/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L231F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
V283F/A/G/I/L/W/M/C/N/S/T/E/D/R/K/H/Q/Y/P
T221F/A/G/V/I/LW/M/C/N/P/S/E/D/R/K/H/Q/Y
M211F/A/G/V/I/LW/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L187F/A/G/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/V
P185F/A/G/I/LW/M/C/N/S/T/E/D/R/K/H/Q/Y/V
F189A/G/V/I/LW/M/C/N/P/S/T/E/D/R/K/H/Q/Y/V

R279F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y
S281F/A/G/V/I/L/W/M/C/N/P/T/E/D/R/K/H/Q/Y
N230F/A/G/V/I/L/W/M/C/P/S/T/E/D/R/K/H/Q/Y
Q225F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Y
F252F/A/G/V/I/L/W/M/C/P/S/T/E/D/R/K/H/Q/Y
R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S
R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be
made in conjunction with each other or with other modifications to DAOCS
in order to produce a useful catalyst with the desired properties. Other
modifications based on the use of the three dimensional structure of IPNS,
DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or
complexes of these enzymes to their substrates, intermediates, modifiers,
products or inhibitors are not excluded.

h) The side chain binding interactions of DAOCS are modified such that 6-aminopenicillins or other bicylic β-lactams may be produced *in vitro* or *in vivo* from 6-amino penicillins, such as 6-aminopenicillanic acid (Scheme 12). The process may include the following modifications (other modifications based on the use of the three dimensional structures of IPNS or DAOCS or DAOCS/DACS are not excluded):

R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y F189R/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S T91F/A/G/V/L/I/W/M/C/N/Q/P/S/E/D/K/H/R/Y F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y

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A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
P185F/A/G/L/V/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y
T104F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y
M217F/A/G/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
I324F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
I317F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
R325F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I
Y321F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/S
R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

i) The side chain binding interactions of DAOCS is modified such that cephams or cephalosporins without any substituent at the 7-position or other bicylic β-lactams, without any substituent at the 7-position, may be produced *in vitro* or *in vivo* from penicillins or cepham substrates (Scheme 13). The penicillanic acid may be produced whether in vitro or in vivo. The process may include the following modifications:

R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y F189R/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y

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C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S
T91F/A/G/V/L/I/W/M/C/N/Q/P/S/E/D/K/H/R/Y
F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y/A
A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y
T104F/A/G/V/L/I/W/M/N/C/P/S/E/D/R/K/H/Q/Y
M217F/A/G/V/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
I324F/A/G/V/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/Y
Y321F/A/G/V/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/I
Y321F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/I
R210F/A/G/V/I/L/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that the modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

phydrophobic side chains (Scheme 14) (or other intermediates for use in the preparation of cephalosporin antibiotics, e.g. Cefachlor.) The process will involve modification of both the side chain binding interactions of DAOCS substrates and of the thiaxolidine binding interactions and may involve the use of penicillins with hydrophobic side chains (e.g. penicillin G or V) as substrates or the use of other unnatural substrates. The process may include the following modifications (other modifications based on the use of

the three dimensional structures of IPNS or DAOCS or DAOCS/DACS are not excluded):

	V272F/A/G/I/LW/M/C/N/P/S/T/E/D/R/K/H/Q/Y
5	L231F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
3	L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
	V283F/A/G/I/LW/M/C/N/S/T/E/D/R/K/H/Q/Y/P
	T221F/A/G/V/I/L/W/M/C/N/P/S/E/D/R/K/H/Q/Y
	M211A/G/V/I/LW/C/N/P/S/T/E/D/R/K/H/Q/Y/F
10	L187F/A/G/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/V
	P185F/A/G/I/LW/M/C/N/S/T/E/D/R/K/H/Q/Y/V
	F189A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
	R279F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y
15	S281F/A/G/V/I/L/W/M/C/N/P/T/E/D/R/K/H/Q/Y
	N230F/A/G/V/\/LW/M/C/P/S/T/E/D/R/K/H/Q/Y
	Q225F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Y
	F252A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
	R287F/A/GN/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
20	R87F/A/GN/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
	R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
	C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S
	T91F/A/G/V/L/I/W/M/C/N/Q/P/S/E/D/K/H/R/Y
25	F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y
	A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
	P185F/A/G/L/I/M/M/C/N/V/S/T/E/D/R/K/H/Q/Y
	T104F/A/G/V/L/I/W/M/N/P/S/T/E/D/R/K/H/Q/Y
	M217F/A/G/L/I/V/W/C/N/P/S/T/E/D/R/K/H/Q/Y
	1324F/A/G/L/V/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
	1317F/A/G/V/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
30	R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I

Y321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/L R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

k) The structure of DACS is modified in its active site region to accept substrates with hydrophobic side chains, including, but not exclusively, penicillin N, penicillin G and penicillin V) to produce cephalosporins or other bicyclic β -lactams of commercial use with hydrophobic or other unnatural side chains (Scheme 15) . The process may include the following modifications:

20 R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
F189R/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S
S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y
F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y/Q
A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y
T104F/A/G/V/L/I/W/M/N/P/S/E/D/R/K/H/Q/Y/C
L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y

R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I Y321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/L R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

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It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

The structure of DACS is modified in its active site region to accept natural or unnatural substrates (including, but not exclusively, penicillin N, adipoyl penicillin) to produce bicyclic β-lactams other than cephalosporins of commercial use (Scheme 16). For example the region of DAOCS interacting with the thiazolidine ring of its natural substrate penicillin N may be modified such that the modified DAOCS produces 3-exomethylenecephams from penicillin N, penicillin G, or penicillin V, or other substrates for DAOCS. The process may include the following modifications

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V272F/A/G/I/LW/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L231F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
V283F/A/G/I/LW/M/C/N/S/T/E/D/R/K/H/Q/Y/P
T221F/A/G/V/I/LW/M/C/N/P/S/E/D/R/K/H/Q/Y/
M211A/G/V/I/LW/C/N/P/S/T/E/D/R/K/H/Q/Y/F
L187F/A/G/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/V

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P185F/A/G/I/L/W/M/C/N/S/T/E/D/R/K/H/Q/Y/V
R279F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y
S281F/A/G/V/I/L/W/M/N/C/N/P/T/E/D/R/K/H/Q/Y
N230F/A/G/V/I/L/W/M/C/P/S/T/E/D/R/K/H/Q/Y
Q225F/A/G/V/I/L/W/M/N/C/N/P/S/T/E/D/R/K/H/Y
F252F/A/G/V/I/L/W/M/N/C/P/S/T/E/D/R/K/H/Q/Y
R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be
made in conjunction with each other or with other modifications in order to
produce a useful catalyst with the desired properties. Other modifications
based on the use of the three dimensional structure of IPNS, DACS,
DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of
these enzymes to their substrates, intermediates, modifiers, products or
inhibitors are not excluded.

m) The side chain binding interactions of DACS are modified such that 7-aminocephems or 7-aminocephams (including 3-exomethylencephams) or other bicylic β -lactams may be produced *in vitro* or *in vivo* from 6-amino penicillins (such as 6-aminopenicillanic acid) or cephams or cephems (Scheme 17). The process may include the following modifications:

R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
F189R/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S
S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y
F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y

A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y
T104F/A/G/V/L/I/W/M/N/P/S/E/D/R/K/H/Q/Y/C
L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y,
R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I
Y321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/
R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S
R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

10 It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

n) The side chain binding interactions of DACS are modified such that cephams or cephalosporins without any substituent at the 7-position or other bicylic β-lactams, without any substituent at the 7-position, may be produced *in vitro* or *in vivo* from penicillins or cepham substrates, such as penicillanic acid (Scheme 18). The penicillanic acid may be produced whether in vitro or in vivo. The process may include the following modifications:

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R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y F189R/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/RY/S

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PCT/GB97/02838

S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y T104F/A/G/V/L/I/W/M/N/P/S/E/D/R/K/H/Q/Y/C L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I Y321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/L R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

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It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

DACS is modified to produce 3-exomethylenecephams with 0) 20 hydrophobic side chains (or other intermediates for use in the preparation of cephalosporin antibiotics, e.g. Cephachlor.) (Scheme 19). The process will involve modification of both the side chain binding interactions of DACS substrates and of the thiaxolidine or cepham binding interactions and may involve the use of penicillins with hydrophobic side chains (e.g. penicillin G or V) as substrates or the use of other unnatural substrates. The process may include the following modifications:

> V272F/A/G/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L231F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y

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L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y V283F/A/G/I/L/W/M/C/N/S/T/E/D/R/K/H/Q/Y/P T221F/A/G/V/I/L/W/M/C/N/P/S/E/D/R/K/H/Q/Y M211A/G/V/I/L/W/C/N/P/S/T/E/D/R/K/H/Q/Y/F L187F/A/G/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/V P185F/A/G/I/L/W/M/C/N/S/T/E/D/R/K/H/Q/Y/V R279F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y S281F/A/G/V/I/L/W/M/N/C/N/P/T/E/D/R/K/H/Q/Y N230F/A/G/V/I/LW/M/C/P/S/T/E/D/R/K/H/Q/Y Q225F/A/G/V/V/L/W/M/N/C/N/P/S/T/E/D/R/K/H/Y F252F/A/G/V/I/L/W/M/N/C/P/S/T/E/D/R/K/H/Q/Y R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y F189R/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y T104F/A/G/V/L/I/W/M/N/P/S/E/D/R/K/H/Q/Y/C L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I Y321F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/L R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS,

DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

p) The structure of DAOCS/DACS is modified in its active site region to accept natural or unnatural substrates (including, but not exclusively, penicillin N, adipoyl penicillin) to produce bicyclic β-lactams other than cephalosporins of commercial use (Scheme 20). For example the region of DAOCS/DACS interacting with the thiazolidine ring of its natural substrate penicillin N (or the cepham ring of DAOC) may be modified such that the modified DAOCS/DACS produces 3-exomethylenecephams from penicillin N, penicillin G, or penicillin V, or other substrates for DAOCS/DACS. The process may include the following modifications:

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V272F/A/G/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L231F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
V283F/A/G/V/I/W/M/C/N/S/T/E/D/R/K/H/Q/Y/P
T221F/A/G/V/I/L/W/M/C/N/P/S/E/D/R/K/H/Q/Y/P
M211A/G/V/I/L/T/W/C/N/P/S/E/D/R/K/H/Q/Y/F
L187F/A/G/I/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/V
P185F/A/G/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/V
L189A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/V
R279F/A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/F
R279F/A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y
S281F/A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y
R230F/A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y
R252F/A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y

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R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

q) The side chain binding interactions of DAOCS/DACS are modified such that 7-aminocephems or 7-aminocephams (including 3-exomethylencephams) or other bicylic β-lactams may be produced *in vitro* or *in vivo* from 6-amino penicillins (e.g. 6-aminopenicillanic acid) or cephams or cephems (Scheme 21). The process may include the following modifications:

R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
L189F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y/R
C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S
S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y
F285A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y
A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
P185F/A/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
T104F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y
M324F/A/G/V/I/L/W/C/N/P/S/T/E/D/R/K/H/Q/Y
L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/

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Y321F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

r) The side chain binding interactions of DAOCS/DACS are modified such that cephams or cephalosporins without any substituent at the 7-position or other bicylic β-lactams, without any substituent at the 7-position, may be produced *in vitro* or *in vivo* from penicillins or cepham substrates, such as penicillanic acid. The penicillanic acid may be produced whether *in vitro* or *in vivo* (Scheme 22). The process may include the following modifications:

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R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
L189F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y/R
C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S
S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y
F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y
A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q
P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y
T104F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y

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T217F/A/G/L/I/V/W/M/C/N/P/S/E/D/R/K/H/Q/Y
M324F/A/G/V/I/L/W/C/N/P/S/T/E/D/R/K/H/Q/Y
L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y
R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I
Y321F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y/I
R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S
R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be
made in conjunction with each other or with other modifications in order to
produce a useful catalyst with the desired properties. Other modifications
based on the use of the three dimensional structure of IPNS, DACS,
DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of
these enzymes to their substrates, intermediates, modifiers, products or
inhibitors are not excluded.

exomethylenecephams with hydrophobic side chains (or other intermediates for use in the preparation of cephalosporin antibiotics, e.g. Cephachlor) (Scheme 23). The process will involve modification of both the side chain binding interactions of DAOCS/DACS substrates and of the thiaxolidine or cepham binding interactions and may involve the use of penicillins with hydrophobic side chains (e.g. penicillin G or V) as substrates or the use of other unnatural substrates. The process may include the following modifications:

R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y
L189F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y/R

RECTIFIED SHEET (RULE 91)

ISA/EP

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S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y A330F/G/V/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y T104F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y T217F/A/G/L/I/V/W/M/C/N/P/S/E/D/R/K/H/Q/Y M324F/A/G/V/I/LW/C/N/P/S/T/E/D/R/K/H/Q/Y L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I Y321F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q V272F/A/G/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L231F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y L223F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y V283F/A/G/I/L/W/M/C/N/S/T/E/D/R/K/H/Q/Y/P T221F/A/G/V/I/L/W/M/C/N/P/S/E/D/R/K/H/Q/Y M211A/G/V/I/L/T/W/C/N/P/S/E/D/R/K/H/Q/Y/F L187F/A/G/I/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y/V P185F/A/G/I/L/TW/M/C/N/S/E/D/R/K/H/Q/Y/V F189A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Q/Y R279F/A/G/V/I/L/T/W/M/C/N/P/S/E/D/K/H/Q/Y S281F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y N230F/A/GN/I/L/TW/M/C/P/S/E/D/R/K/H/Q/Y Q225F/A/G/V/I/L/T/W/M/C/N/P/S/E/D/R/K/H/Y F252F/A/G/V/I/L/T/W/M/C/P/S/E/D/R/K/H/Q/Y R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S R190F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S

It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications

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produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

t) The structure of DAOC/DACS is modified in its active site region to accept substrates (i.e. penicillins with hydrophobic side chains, (including, but not exclusively, penicillin N, penicillin G and penicillin V) to produce cephalosporins or other bicyclic β -lactams of commercial use with hydrophobic or other unnatural side chains (Scheme 24). The process may include the following modifications:

R287F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y R87F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y 15 R88F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y L189F/A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/K/H/Y/R C183F/A/G/V/L/I/W/M/N/Q/P/T/E/D/K/H/R/Y/S S91F/A/G/V/L/I/W/M/C/N/Q/P/T/E/D/K/H/R/Y F285A/G/V/L/I/W/M/C/N/Q/P/S/T/E/D/R/K/H/Y 20 A330F/GN/L/I/W/M/C/N/P/S/T/E/D/R/K/H/Y/Q P185F/A/G/L/I/W/M/C/N/V/S/T/E/D/R/K/H/Q/Y T104F/A/G/V/L/I/W/M/C/N/P/S/E/D/R/K/H/Q/Y T217F/A/G/L/I/V/W/M/C/N/P/S/E/D/R/K/H/Q/Y M324F/A/G/V/I/LW/C/N/P/S/T/E/D/R/K/H/Q/Y 25 L317F/A/G/V/I/W/M/C/N/P/S/T/E/D/R/K/H/Q/Y R325F/A/G/V/L/W/M/C/N/P/S/T/E/D/K/H/Q/Y/I Y321F/A/G/V/I/L/W/M/C/N/P/S/T/E/D/R/K/H/Q R210F/A/G/V/I/L/T/W/M/C/N/P/E/D/R/K/H/Q/Y/S R190F/A/GN/I/L/TW/M/C/N/P/E/D/R/K/H/Q/Y/S 30

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It is recognised that these modifications may have to be made in conjunction with each other or with other modifications in order to produce a useful catalyst with the desired properties. Other modifications based on the use of the three dimensional structure of IPNS, DACS, DAOCS/DACS, other sequence related enzymes or complexes of these enzymes to their substrates, intermediates, modifiers, products or inhibitors are not excluded.

Use can also be made of the 3D structure of IPNS to determine or predict the structure of other related enzymes which are not active in the penicillin or cephalosporin biosynthesis pathway. The structural information so obtained can then be used to modify the other enzyme or for designing an inhibitor for the other enzymes. Such other enzymes include flavone synthase, prolyl hydroxylase, proline hydroxylase, lysyl hydroxylase, aspartyl hydroxylase, flvanone 3β-hydroxylase, gibberellin C-20 oxidase, gibberellin 3β-hydroxylase, parahyroxyphenylpyruvate dioxygenase (HPPD), 1-aminocyclopropane-1-carboxylic acid (ACC) oxidase. Specific embodiments envisaged include:

- The modification of the oxidases involved in gibberellin biosynthesis in order that modified enzymes may be introduced into plants in order to improve crop production.
- The design of inhibitors of ACC oxidase to be used for the control of fruit ripening.
- The design and use of inhibitors of prolyl hydroxylase for use in the treatment of arthritis and related diseases.

Modification of enzymes may conveniently be effected at the nucleic acid stage. Thus, the present invention envisages genes which code for the modified enzymes herein described. The nucleic acid sequence of such genes may be readily predicted. Mutations of existing wild-type genes may readily be effected e.g. by the use of commercially available mutagenesis kits.

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The gene may be introduced into an expression vector by techniques which are well known. The expression vector may be used to transform a host micro-organism, such as for example Penicillium chrysogenum or Acremonium chrysogenum, again by techniques which are well known. The micro-organism should be capable of expressing the gene under fermentation conditions, e.g. by having the gene under the transcriptional and translational regulation of fungal expression signals. Such micro-organisms containing the modified gene may be used to make bicyclic β -lactams of the penicillin or cephalosporin family, again by techniques which are well known.

The following experiments were performed to demonstrate the invention.

EXAMPLE 1

A U.S.E mutagenesis kit (Phamacia) was used for all the mutagenesis reactions and a Pst I restriction site on the pET vector was selected. Selection of single and double mutants were successfully performed from colonies by restriction enzyme digestion. (Sambrook *et al*, Molecular Cloning, A Laboratory Manual, Cold Spring Harbour, USA, 1989). It was found that about 50% of colonies selected were mutants. Mutations of DAOCS (Table 1) were confirmed by sequencing according to the dideoxy method of Sanger. Mutants were designed after study of the IPNS-Mn²⁺ and the IPNS-Fe(II)-ACV structures. Polar residues with which the side chain D-α-aminoadipoyl (carboxylate and amino groups) might bind to were identified.

Almost all the mutants expressed well, except R88I, R88Q and R87Q/R287Q whereby the expression level was only about half of others. Generally the expression level of colonies was about 10~20 % of soluble protein at 27°C. Moreover, recombinant enzyme of P168V mutant was insoluble. These mutant enzymes were purified to ~60-70 % purity

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with Resouce-Q column (Phamacia). The activity of each mutant with respect to penicillin N and its side-chain analogues was analysed by bioassay. It was found that R87I, R87Q, R88I and R88Q could inhibit the growth of E coli X580 cells using a hole-plate assay which contained penicillinase. The products of the reaction with penicillin G and wild type DAOCS also showed the same inhibition. Screening of the substrate conversion of penicillins mutants was also performed using a assay with radiolabelled α -ketoglutarate. The reaction conditions were the same as for bioassay except that [14 C]- α -ketoglutarate was used. The specific activities of the various mutants are summarised in Table I.

The loss of activity when using penicillin N as a substrate after mutation of arginine 287 to isoleucine or glutamine in the active site of expandase implies an important interaction of this amino acid with the carboxyl group which located in the side chain of penicillin N. This is compatible with the structural predictions for DAOCS which were suggested based on IPNS structure. On the other hand, mutation at arginine 87 to isoleucine or glutamine enhanced the activity (when using penicillin N as a substrate), whereas mutants of arginine 88 caused partial loss of activity (when using penicillin N as a substrate). Double mutations at the sites totally eliminated activity.

The specific activities of the (mutant) modified DAOCS, when using penicillin N as a substrate, support the prediction that the 3-dimensional structure of DAOCS is closely related to that of IPNS.

However, not all the kinetic results can be predicted by analysis of the predicted DAOC structure, e.g. the apparent increase in activity of the R87Q modification, when using penicillin N as a substrate. Other results in Table 1 further demonstrate the invention. For example the R87Q mutant converts penicillin G to phenylacetylcephalosporin G more efficiently than the unmodified enzyme. Other results demonstrate the introduction of new activities into the modified DAOCS enzymes. For example neither oxacillin

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nor piperacillin are substrates for the unmodified enzymes, but are substrates for the R87I/R287Q modified enzymes.

EXAMPLE 2

5 IPNS-Fe-ACV Complex

Enzyme and Substrate Preparation

Recombinant *A. nidulans* IPNS was purified as the apoenzyme as described previously (Roach *et al*, Protein Science, 1995, **4**, 1007-1009) and stored at -80°C in 75 μ l aliquots (50 mg/ml in 20 mM Tris-HCl, pH 8.0). ACV (thiol form) was prepared as described previously and was further purified by HPLC [Hypersil octadecylsilane (C₁₈) column (250 x 10 mm), eluting with 10 mM NH₄CO₃, containing 4% (vol./vol.) MeOH; R_t=6.5 min at 4 ml/min], freeze dried and stored as 2 mg aliquots.

15 Crystallisation

Crystallisation trials were performed at 17°C under anaerobic conditions (<0.2 ppm O₂) in a glove box (Belle Technology, Portesham, Dorset, UK) using the hanging drop vapour diffusion technique. All solutions except the protein were deoxygenated by repeated evacuation followed by argon flushing (repeated three times) prior to transfer to the anaerobic glove box. Solid reagents (ACV, ferrous sulphate and sodium dithionite), all solutions except protein solutions, washed cover-slips and greased Linbro plates were left for 16 h in the glove box to further deoxygenate. IPNS solutions were transferred to the glove box immediately prior to each crystallisation experiment and mixed by repeated gentle pipetting to assist deoxygenation. To further ensure that the crystallisation experiments were done anaerobically, a coloured redox indicator was added to each well. Thus, oxidised resazurin which shows a mauve to colourless change upon dithionate reduction, was added (0.001% mass/vol.) to the stock well solutions (separate solutions, without

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resazurin, were reserved for hanging drops) and sodium dithionite solution (100 mM) added dropwise until the solution in the well changed colour from mauve to colourless (Jacob, Methods in Microbiol., 1969, 2, 91-124). Upon exposure to oxygen (either by contamination or upon withdrawing the crystallisation tray from the glove box), the solution in the well changed from colourless (reduced) to pink (partially oxidised).

A stock solution containing ferrous sulphate (5 mM), ACV (80 mM) and IPNS (50 mg/ml. 1.35 mM) was then prepared and used in random screening experiments using 6 μl drops (1:1 precipitant:protein) (Jancerik and Kim, J. Appl. Crystallog., 1991, 24, 409). Three crystal forms were obtained using a precipitant solution containing 1.8M lithium sulphate and 100 mM Tris-HCl (pH 8.5). Crystals were not observed in analogous crystallisation experiments carried out in the absence of ACV. Crystallisation conditions were optimised by varying the protein and precipitant concentrations.

Plate crystals (Form I) typically appeared between 6 and 12 hours and reached a maximum size (typically 500 x 150 x 25 μ m³) in 48 hours. Hexagonal columnar crystals (Form II) typically appeared after 12 - 16 hours and grew to a maximum size (typically 1000 x 500 x 500 μ m³) in 1 week. The needles (Form III), with a hexagonal cross-section, appeared after *ca.* 2 weeks and were more commonly observed when using less homogenous batches of protein. In analogous experiments carried out under aerobic conditions, no crystals were observed.

Form I crystals grew spontaneously in less than half of the
drops after 12 hours. After this time, Form II crystals began to grow and
predominated in those drops in which plates had not grown. By using
serial dilutions of microseeds prepared from either Form I or Form II
crystals, it was possible to bias the growth of crystals completely to either
of these morphologies. There is a delicate balance between production of
the different forms since some drops contained two or all three of the

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different crystal forms.

X-ray Analysis

For initial characterisation, crystals were mounted in quartz capillaries under an anaerobic atmosphere and the capillaries sealed with wax. Data were then collected (Table 4) at room temperature.

Subsequently, the crystals were shown to be apparently stable to relatively short (< 1 hour) exposure to oxygen and were withdrawn from the glove box. The crystals were then rapidly transferred to a cryoprotective mother liquor (100 mM Tris-HCl pH 8.5, 20% (vol./vol.) glycerol, saturated at room temperature with lithium sulphate) and frozen using a Cryostream (Oxford Cryosystems). Data were then collected at 100 K. Data were analysed using the programs DENZO and SCALEPACK (Otinowski, Data Collection and Processing, Daresbury Laboratory, Warrington, UK (Sawyer *et al*, Eds) PL/SCI/R34, pp 55-62).

Table 4 - Crystal Statistics

Crysta I Form	Diffractio n Limit (nm)†	Space Group	Unit Cell Dimensions (nm)	Solvent Content (%)	Completeness (%)	Rsym (%)
1	0.11, 0.18	P2 ₁ 2 ₁ 2 ₁	4.68, 7.15, 10.10	38.5	95.4	5.9
ii	0.21, 0.23	P3,2,	10.10, 10.10, 11.567	69.5	94.0	7.2

† The first figure refers to the diffraction limit of the form I and form II crystals after respectively 30 and 10s exposures at BL19 of the European Synchrotron Radiation Facility (ESRF). The second figure refers to the diffraction limits after 30 min. exposures using a Rikagu rotating anode source operating at 60 kV and 70 mA equipped with a MAR Research

imaging plate detector. All other figures in the table refer to data collected at the ESRF. The data for form I crystals was collected using a MAR Research imaging plate detector and the data for the form II crystals on a charged coupled device detector.

Hereafter:

Table 1 appears on page 41.

Table 2 appears on pages 42-78.

Table 3 appears on pages 79-119.

Reaction Schemes on pages 120-129.

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Table 1: The Specific activity of various DAOCS mutants analysed by the furnover of α -[' 4 C]-ketoglutarate.

 			Γ	٦		Т	_	T	7		T		Ī	\neg		1			Т		
		Piperacillin	0		1.8±0.2		>	0		0		0	,	0	0	,	0	2.5±0.3	c	•	
		Oxacillin	0	•	2.0±0.09	ľ	5	0.8+0.3		0		0	ļ	-	0	ļ	>	4.1±0.4	6	>	
		Cloxacillin	16+06		2.7±0.6			0 0+0 04	5	0		0		•	0	ļ	o —	4.5±0.08	c	>	
		Methicillin		>	0.2±0.1		0		>	c	>	0		°	0		o —	0		<u> </u>	
		Ammoxicillin	90.7	1.4±0.0	1 1+0.04		0		5	٦	>	0		0	0		0	1 1+0 3		<u>-</u>	
		Carbenicillin	ľ	0	c	>	0		5		>	c	,	0	c	>	0	6	>	0	
_		Ampicillin		0		,	0		0	ļ	0	c	>	0		>	0	,	>	0	
		Penicillin G Penicillin V		5.3±0.3	00.00	2.3±0.2	c	,	1.5±0.3		3.4±0.6		<u>.</u>	0	,	>	0		0.7±0.2	c	,
		Penicillin G		5.1±0.4		0	c	>	4.3±0.1		7.5±0.4	0.00	2.0±0.5	0.2+0.02		00.3±0.04	0		3.2±0.1		,
		Adipyl-6- APA		27+04		0	,	>	6	,	0		0	c	,	0	c	,	0	6	,
6-Amino-	penicillanic	acid (6-APA)		1 0+0 2	1.010.1	1.7±0.6	ľ	5	4 440 5	7.1	6	,	0		,	0	6	•	3.3±0.2	ľ	>
	-	Penicillin N		10 017	D.4±0.3	0		0	20.00	0.4±0.00	13 4+0 4	F.0-F.01	5.3±0.8	30.00	£.9±0.5	0	,	>	0		0
	Specific	activity (nmol/min/mg)			Wild type	R2871		R287Q		R871	0700	2/62	R88I		K880	R87VR2871		R87Q/R2871	R871/R287Q		R87Q/R287Q

Experiments were done in duplicate and values for "the penicillin uncoupled decarboxylation of α-ketoglutarate" have been subtracted.

The specific radioactivity of the lpha-ketoglutarate used was ca. 0.057 $\mu\text{Cl}/\mu\text{mol}.$

N.B. "The penicillin uncoupled decarboxylation reaction" is the enzymatic turnover of α-ketoglutarate in the absence of penicillin substrate.

					-42 Table				
anvem:	59.20	10 121	000 139	. 600		0.00 90.00			
CRYST1 SCALE1	39.20	0.01689			0.00000		0.00000		
SCALE2		0.00000	0.007		0.000000		0.00000 0.00000		
SCALE3		0.0000			0.007163	53.636	-2.826	1.00	79.63
MOTA	1	CB	VAL A VAL A	4 4	16.524 15.692	54.759	-2.223	1.00	75.59
MOTA	2 3	CG1 CG2	VAL A	4	18.011	53.869	-2.523	1.00	77.94
ATOM	4	C	VAL A	4	14.636	52.001	-2.797	1.00	78.66
ATOM . ATOM	5	ō	VAL A	4	14.443	51.769	-3.987	1.00	79.44 82.21
ATOM	6	N	VAL A	4	16.880	51.117	-2.818	1.00 1.00	80.32
ATOM	7	CA	VAL A	4	16.049	52.254	-2.290 -1.916	1.00	76.44
ATOM	8	N	SER A	5	13.655	52.015 51.764	-2.350	1.00	73.85
ATOM	9	CA	SER A	5 5	12.286 11.583	50.804	-1.380	1.00	74.99
MOTA	10	CB OG	SER A SER A	5	12.012	51.018	-0.044	1.00	76.77
ATOM	11 12	c	SER A	5	11.474	53.054	-2.482	1.00	70.80
ATOM ATOM	13	ō	SER A	5	11.970	54.146	-2.187	1.00	70.77
ATOM	14	N	LYS A	6	10.250	52.914	-2.970	1.00 1.00	67.33 64.23
ATOM	15	CA	LYS A	6	9.320	54.025	-3.124 -4.319	1.00	65.78
MOTA	16	CB	LYS A	6	8.403	53.799 54.568	-5.557	1.00	69.46
MOTA	17	CG	LYS A	6	8.751 7.579	54.445	-6.510	1.00	76.71
ATOM	18	CD	LYS A	6 6	7.768	55.261	-7.784	1.00	81.89
ATOM	19	CE NZ	LYS A LYS A	6	6.509	55.312	-8.612	1.00	83.94
ATOM	20 21	C	LYS A	6	8.457	54.095	-1.868	1.00	61.05
ATOM ATOM	22	ō	LYS A	6	8.061	53.061	-1.325	1.00	62.18
ATOM	23	N	ALA A	7	8.166	55.304	-1.410	1.00	55.41 49.08
ATOM	24	CA	ALA A	7	7.346	55.487	-0.231 0.393	1.00 1.00	44.79
MOTA	25	CB	ALA A	7	7.632	56.853	-0.609	1.00	46.39
MOTA	26	C	ALA A	7	5.875 5.469	55.363 55.706	-1.721	1.00	44.68
MOTA	27	0	ala a asn a	8	5.080	54.840	0.313	1.00	45.74
MOTA	28	N CA	ASN A	8	3.652	54.694	0.086	1.00	46.86
MOTA	29 30	CB	ASN A	8	3.041	53.759	1.142	1.00	53.92
MOTA MOTA	31	CG	ASN A	8	1.515	53.798	1.154	1.00	59.91
ATOM	32	OD1	ASN A	8	0.865	53.318	0.226	1.00	63.71 61.02
ATOM	33	ND2	ASN A	8	0.941	54.403	2.193 0.175	1.00	45.51
MOTA	34	С	ASN A	8	3.009	56.078 56.594	1.276	1.00	49.10
MOTA	35	0	ASN A	8 9	2.782 2.802	56.712	-0.977	1.00	42.13
MOTA	36	N	VAL A VAL A	9	2.167	58.028	-1.026	1.00	36.18
ATOM	37 38	CA CB	VAL A	9	3.066	59.093	-1.733	1.00	31.81
ATOM ATOM	39	CG1	VAL A	9	2.425	60.459	-1.650	1.00	28.09
ATOM	40	CG2	VAL A	9	4.438	59.149	-1.100	1.00	26.59 36.23
MOTA	41	С	VAL A	9	0.835	57.869	-1.768 -3.000	1.00	39.84
ATOM	42	0	VAL A	9	0.785	57.827 57.715	-1.018	1.00	35.13
MOTA	43	N	PRO A	10 10	-0.261 -0.322	57.622	0.451	1.00	33.70
MOTA	44	CD	PRO A PRO A	10	-1.588	57.549	-1.620	1.00	34.32
MOTA	45 46	CA CB	PRO A	10	-2.473	57.229	-0.412	1.00	35.22
ATOM	47	CG	PRO A	10	-1.775	57.912	0.734	1.00	34.45
ATOM ATOM	48	c	PRO A	10	-2.094	58.759	-2.390	1.00	33.02
ATOM	49	O	PRO A	10	-1.778	59.897	-2.060	1.00 1.00	36.04 35.45
ATOM	50	N	LYS A	11	-2.870	58.503	-3.434 -4.236	1.00	36.88
MOTA	51	CA	LYS A	11	-3.435	59.576 59.233	-5.724	1.00	31.82
MOTA	52	C3	LYS A	11 11	-3.361 -1.958	58.944	-6.203	1.00	38.51
MOTA	53	CG	LYS A LYS A	11	-1.858	58.929	-7.722	1.00	44.67
ATOM	54	CD	LYS A	11	-0.482	58.455	-8.166	1.00	47.02
ATOM	55 56	NZ	LYS A	11	0.620	59.309	-7.628	1.00	53.83
MOTA MOTA	57	C	LYS A	11	-4.882	59.740	-3.798	1.00	39.16
MOTA	58	0	LYS A	11	-5.748	58.984	-4.232	1.00	46.42
ATOM	59	N	ILE A	12	-5.133	60.704	-2.917	1.00 1.00	36.94 32.90
ATOM	60	CA	ILE A	12		60.959	-2.394 -0.965	1.00	25.23
ATOM	61	СВ	ILE A	12		61.510 61.826	-0.436	1.00	19.49
ATOM	62	CG2	ILE A	12		60.505	-0.077	1.00	26.81
ATOM	63	CG1	ILE A ILE A	12 12		60.995	1.314	1.00	29.30
ATOM	64	CD1 C	ILE A	12		61.932	-3.250	1.00	38.45
ATOM	65 6 6	0	ILE A	12		62.919	-3.749	1.00	41.39
ATOM ATOM	67	N	ASP A	13		61.622	-3.451	1.00	44.53
ATOM	68	CA	ASP A	13	-9.431	62.484	-4.225	1.00	46.03 51.16
ATOM	69	СВ	ASP A	1.3	-10.555	61.684	-4.881	1.00	31.10

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				- 4.5	-			
		cc	ASP A	13 -11.361	62.512	-5.869	1.00	56.62
ATOM	70	CG OD1	ASP A	13 -11.737	63.659	-5.544	1.00	54.34
MOTA	71 72	OD2	ASP A	13 -11.619	62.011	-6.984	1.00	66.60
ATOM	73	C	ASP A	13 -10.000	63.472	-3.227	1.00	44.39
ATOM	74	ŏ	ASP A	13 -10.791	63.121	-2.354	1.00	44.73
ATOM	75	N	VAL A	14 -9.605	64.719	-3.391	1.00	44.33
MOTA MOTA	76	CA	VAL A	14 -10.003	65.785	-2.498	1.00	38.69
ATOM	77	СВ	VAL A	14 -8.796	66.720	-2.338	1.00	34.66
ATOM	78	CG1	VAL A	14 -9.190	68.101	-1.875	1.00	37.77
ATOM	79	CG2	VAL A	14 -7.833	66.077	-1.365	1.00	33.42
ATOM	80	С	VAL A	14 -11.296	66.521	-2.846	1.00	39.30
MOTA	81	0	VAL A	14 -11.808	67.298	-2.036	1.00	39.59
ATOM	82	N	SER A	15 -11.891	66.202	-3.990	1.00	38.33
MOTA	83	CA	SER A	15 -13.116	66.881	-4.393	1.00	37.64
MOTA	84	CB	SER A	15 -13.686	66.298	-5.689	1.00	39.61
MOTA	85	OG	SER A	15 -14.027	64.933	-5.546	1.00	47.59
ATOM	86	С	SER A	15 -14.197	66.977	-3.324	1.00	37.35
MOTA	87	0	SER A	15 -14.691	68.066	-3.05€	1.00	40.20
MOTA	88	N	PRO A	16 -14.532	65.866	-2.647	1.00	38.58
MOTA	89	CD	PRO A	16 -13.957	64.511	-2.714	1.00	40.22
ATOM	90	CA	PRO A	16 -15.574	65.918	-1.613	1.00	37.63 33.25
ATOM	91	CB	PRO A	16 -15.410	64.583	-0.901	1.00	
ATOM	92	CG	PRO A	16 -14.999	63.689	-1.991	1.00	36.58
MOTA	93	С	PRO A	16 -15.439	67.066	-0.624	1.00	38.86
ATOM	94	0	PRO A	16 -16.442	67.614	-0.184	1.00	40.71
ATOM	95	N	LEU A	17 -14.200	67.444	-0.310	1.00	39.30
ATOM	96	CA	LEU A	17 -13.917	68.513	0.649	1.00	38.18
ATOM	97	CB	LEU A	17 -12.412	68.594	0.911	1.00	34.24 32.70
ATOM	98	CG	LEU A	17 -11.838	67.299	1.490	1.00	27.81
MOTA	99	CDl	LEU A	17 -10.330	67.382	1.663	1.00	34.84
ATOM	100	CD2	LEU A	17 -12.515	67.008	2.820	1.00	41.67
ATOM	101	С	LEU A	17 -14.472	69.881	0.260	1.00	38.36
MOTA	102	0	LEU A	17 -14.598	70.776	1.105	1.00 1.00	48.11
ATOM	103	Ŋ	PHE A	18 -14.774	70.043	-1.025		52.21
ATOM	104	CA	PHE A	18 -15.339	71.287	-1.551	1.00	51.38
ATOM	105	CB	PHE A	18 -14.857	71.551	-2.993	1.00 1.00	49.52
ATOM	106	CG	PHE A	18 -13.365	71.738	-3.132	. 1.00	50.16
MOTA	107	CD1	PHE A	18 -12.552	70.679	-3.513	1.00	47.59
MOTA	108	CD2	PHE A	18 -12.781	72.983	-2.932	1.00	50.47
ATOM	109	CE1	PHE A	18 -11.183	70.857	-3.695	1.00	44.37
ATOM	110	CE2	PHE A	18 -11.413	73.166	-3.114	1.00	45.21
ATOM	111	CZ	PHE A	18 -10.616	72.102	-3.496	1.00	53.42
ATOM	112	C	PHE A	18 -16.871	71.202	-1.550	1.00	53.80
ATOM	113	0	PHE A	18 -17.550	72.160	-1.848 -1.259	1.00	56.82
ATOM	114	N	GLY A	19 -17.407	70.020		1.00	60.49
MOTA	115	CA	GLY A	19 -18.847	69.842	-1.247 0.120	1.00	64.67
MOTA	116	C	GLY A	19 -19.502	69.931	1.071	1.00	64.98
ATOM	117	0	GLY A	19 -18.927	70.470	0.200	1.00	69.36
ATOM	118	N	ASP A	20 -20.738	69.441	1.449	1.00	72.36
MOTA	119	CA	ASP A	20 -21.507	69.443	1.310	1.00	76.50
MOTA	120	CB	ASP A	20 -22.799	70.263	1.234	1.00	83.77
ATOM	121	CG	ASP A	20 -22.543	71.760	2.152	1.00	89.42
MOTA	122	OD1	ASP A	20 -21.889	72.300	0.262	1.00	85.64
MOTA	123	OD2	ASP A	20 -23.002	72.400	1.918	1.00	70.68
MOTA	124	С	ASP A	20 -21.861	68.035	2.992	1.00	71.00
MOTA	125	0	ASP A	20 -22.433	67.865	1.111	1.00	68.45
MOTA	126	N	ASP A	21 -21.533	67.030	1.473	1.00	66.91
MOTA	127	CA	ASP A	21 -21.830	65.653 64.720	0.267	1.00	69.88
MOTA	128	СВ	ASP A	21 -21.643		0.574	1.00	73.83
MOTA	129	CG	ASP A	21 -22.015	63.268	1.702	1.00	76.66
ATOM	130	OD1	ASP A	21 -22.477	62.978	-0.322	1.00	76.24
ATOM	131	OD2	ASP A	21 -21.845	62.409	2.625	1.00	65.51
MOTA	132	C	ASP A	21 -20.917	65.240 64.800	2.419	1.00	67.20
MOTA	133	0	ASP A	21 -19.785	64.800 65.365	3.838	1.00	63.04
MOTA	134	N	GLN A	22 -21.433		5.033	1.00	59.99
MOTA	135	CA	GLN A	22 -20.687	65.018 65.338	6.264	1.00	60.92
ATOM	136	CB	GLN A	22 -21.578	65.138	7.505	1.00	68.34
ATOM	137	CG	GLN A	22 -20.821	65.550	7.326	1.00	74.81
MOTA	138	CD	GLN A	22 -20.120	66.894 67.793	6.649	1.00	78.00
MOTA	139	OE1		22 -20.632	67.793 67.028	7.909	1.00	77.30
ATOM	140	NE2		22 -18.931	63.623	4.971	1.00	58.00
ATOM	141	C	GLN A	22 -20.104	63.402	5.384	1.00	59.37
ATOM	142	0	GLN A	22 -18.965	05.404			

ATOM	143	N	ALA A	23	-20.877	62.688	4.428	1.00	55.74
ATOM	144	A)	ALA A	23	-20.448	61.291	4.323	1.00	57.85
ATOM	145	CB	ALA A	23	-21.550	60.444	3.688	1.00	57.01
ATOM	146	c	ALA A	23	-19.142	61.133	3.547	1.00	58.62
	147	ō	ALA A	23	-18.180	60.534	4.040	1.00	59.15
MOTA	143	N	ALA A		-19.112	61.662	2.329	1.00	57.88
MOTA		CA	ALA A		-17.920	61.567	1.505	1.00	54.77
MOTA	149	CB	ALA A		-18.195	62.086	0.097	1.00	52.07
MOTA	150		ALA A		-16.772	62.334	2.176	1.00	52.15
MOTA	151	C			-15.617	61.905	2.114	1.00	55.14
MOTA	152	0	ALA A		-17.097	63.443	2.835	1.00	46.23
ATOM	153	N	LYS A			64.230	3.516	1.00	42.19
MOTA	154	CA	LYS A		-16.087	65.505	4.112	1.00	38.59
MOTA	155	CB	LYS A		-16.690		3.149	1.00	33.56
MOTA	156	CG	LYS A		-16.655	66.663	3.806	1.00	35.11
MOTA	157	CD	LYS A	25	-17.022	67.980	3.890	1.00	37.82
MOTA	158	CE	LYS A	25	-18.525	68.172	4.275	1.00	39.00
MOTA	159	NZ	LYS A	25	-18.878	69.562		1.00	43.50
MOTA	160	С	LYS A	25	-15.406	63.406	4.593		45.05
ATOM	151	0	LYS A	25	-14.186	63.378	4.688	1.00	
ATOM	152	N	MET A	26	-16.189	62.680	5.368	1.00	46.05
MOTA	163	CA	MET A	26	-15.599	61.872	6.424	1.00	51.52
MOTA	154	СВ	MET A	26	-16.674	61.263	7.306	1.00	58.77
ATOM	165	CG	MET A	26	-17.065	62.138	8.503	1.00	68.62
	166	SD	MET A	26	-15.776	62.302	9.788	1.00	75.98
MOTA	167	CE	MET A	26	-15.385	60.571	10.146	1.00	72.86
ATOM	165	C.	MET A	26	-14.740	60.785	5.816	1.00	49.91
ATOM		o	MET A	26	-13.709	60.391	6.395	1.00	49.46
MOTA	159	Ŋ	ARG A	27	-15.148	60.307	4.645	1.00	50.27
ATOM	170		ARG A	27	-14.407	59.273	3.942	1.00	51.72
MOTA	171	CA	ARG A	27	-15.141	58.858	2.662	1.00	59.72
ATOM	172	CB	ARG A	27	-15.819	57.511	2.736	1.00	70.60
MOTA	173	CG		27	-16.315	57.084	1.365	1.00	80.78
ATOM	174	CĐ	ARG A		-17.703	57.450	1.123	1.00	88.62
ATOM	175	NE	ARG A	27		58.133	0.056	1.00	93.71
MOTA	176	CZ	ARG A	27	-18.115	58.547	-0.867	1.00	96.83
ATOM	177	NH1	ARG A	27	-17.243		-0.135	1.00	97.09
ATOM	178	NH2	ARG A	27	-19.414	58.338	3.585	1.00	48.21
ATOM	179	С	ARG A	27	-13.026	59.802		1.00	49.76
ATOM	180	0	ARG A	27	-12.030	59.115	3.794		44.43
MOTA	181	N	VAL A	28	-12.977	61.018	3.040	1.00	40.68
ATOM	182	CA	VAL A	28	-11.705	61.637	2.669	1.00	
ATOM	183	CB	VAL A	28	-11.896	63.013	1.989	1.00	40.13
ATOM	184	CG1	VAL A	28	-10.540	63.639	1.672	1.00	40.03
ATOM	185	CG2	VAL A	28	-12.684	62.844	0.709	1.00	39.09
ATOM	186	C	VAL A	28	-10.868	61.798	3.922	1.00	41.23
ATOM	187	ō	VAL A	28	-9.706	61.381	3.963	1.00	41.90
	188	n	ALA A	29	-11.510	62.271	4.981	1.00	40.14
ATOM		CA	ALA A	29	-10.854	62.492	6.255	1.00	39.42
ATOM	189	CB	ALA A	29	-11.873	62.936	7.274	1.00	40.42
ATOM	190		ALA A	29	-10.131	61.242	6.731	1.00	41.63
ATOM	191	c		29	-8.963	61.307	7.119	1.00	42.66
MOTA	192	0	ALA A	30	-10.803	60.099	6.666	1.00	44.91
MOTA	193	N	GLN A			58.848	7.106	1.00	48.27
MOTA	194	CA	GLN A		-10.201	57.702	6.971	1.00	54.77
ATOM	195	СВ	GLN A		-11.203	57.702	7.901	1.00	67.39
MOTA	196	CG	GLN A		-12.400	56.964	7.495	1.00	75.12
MOTA	197	CD	GLN A		-13.579		6.605	1.00	77.42
MOTA	198	OEl	GLN A	30	-13.471	56.115	8.136	1.00	79.26
MOTA	199	NE2	GLN A	30	-14.724	57.189		1.00	47.85
MOTA	200	С	GLN A	30	-8.930	58.544	6.328		49.06
ATOM	201	0	GLN A	30	-7.933	58.099	6.898	1.00	
ATOM	202	N	GLN A	31	-8.972	58.807	5.025	1.00	45.74
ATOM	203	CA	GLN A	31	-7.820	58.573	4.164	1.00	42.76
ATOM	204	CB	GLN A	31	-8.188	58.781	2.701	1.00	40.15
	205	CG	GLN A	31		57.723	2.175	1.00	43.01
ATOM	205	CD	GLN A	31		57.922	0.715	1.00	48.15
MOTA		OE1	GLN A	31		57.518	-0.166	1.00	52.25
MOTA	207	NE2	GLN A	31		58.541	0.449	1.00	55.93
ATOM	208		GLN A	31		59.494	4.568	1.00	41.22
MOTA	209	C		31		59.042	4.765	1.00	43.52
MOTA	210	0	GLN A	32		60.778	4.732	1.00	37.48
MOTA	211	N	ILE A			61.746	5.138	1.00	31.13
MOTA	212	CA	ILE A	32		63.140	5.280	1.00	26.04
ATOM	213	CB	ILE A	32		64.067	5.954	1.00	22.19
MOTA	214	CG2		32		63.663	3.904	1.00	25.80
ATCM	215	CG1	ILE A	32	-6.987	60.60	3.54.		

N.TO.V	216	CD1	ILE A	32	-7.608	65.039	3.924	1.00	27.42
ATOM		C	ILE A	32	-5.343	61.308	6.458	1.00	34.56
MOTA	217		ILE A	32	-4.123	61.345	6.606	1.00	38.92
MOTA	218	0				60.833	7.387	1.00	36.94
ATOM:	219	N	ASP A	33	-6.169			1.00	38.24
ATOM	220	CA	ASP A	33	-5.684	60.375	8.689		
ATOM	221	CB	ASP A	33	-6.850	59.928	9.588	1.00	44.05
ATOM	222	CG	ASP A	33	-6.380	59.328	10.930	1.00	47.52
	223	OD1	ASP A	33	-5.824	60.066	11.773	1.00	44.85
MOTA			ASP A	33	-6.583	58.111	11.149	1.00	46.89
MOTA	224	OD2				59.233	8.529	1.00	36.71
ATOM	225	С	ASP A	33	-4.695		9.182	1.00	39.40
ATOM	226	0	ASP A	33	-3.654	59.209		1.00	33.88
MOTA	227	N	ALA A	34	-5.012	58.285	7.658		
ATOM	228	CA	ALA A	34	-4.129	57.148	7.445	1.00	34.39
ATOM	229	СВ	ALA A	34	-4.808	56.126	6.579	1.00	35.43
	230	C	ALA A	34	-2.783	57.560	6.841	1.00	38.07
MOTA			ALA A	34	-1.728	57.088	7.280	1.00	42.04
MOTA	231	0				58.454	5.851	1.00	37.24
MOTA	232	N	ALA A	35	-2.817		5.197	1.00	34.56
ATOM	233	CA	ALA A	35	-1.596	58.933		1.00	31.14
ATOM	234	CB	ALA A	35	-1.941	59.864	4.054		
ATOM	235	C	ALA A	35	-0.697	59.648	6.189	1.00	33.05
	236	0	ALA A	35	0.485	59.347	6.295	1.00	36.62
ATOM		N	SER A	36	-1.276	60.589	6.923	1.00	32.76
MOTA	237		SER A	36	-0.556	61.369	7.919	1.00	35.08
MOTA	238	CA			-1.503	62.396	8.544	1.00	30.17
MOTA	239	CB	SER A	36			7.539	1.00	33.36
MOTA	240	OG	SER A	36	-2.181	63.133		1.00	39.08
ATOM	241	C	SER A	36	0.054	50.506	9.021		
ATOM	242	0	SER A	36	0.950	60.955	9.750	1.00	41.57
ATOM	243	N	ARG A	37	-0.456	59.288	9.172	1.00	38.47
ATOM	244	CA	ARG A	37	0.053	58.394	10.191	1.00	38.11
		CB	ARG A	37	-1.095	57.702	10.908	1.00	40.18
MOTA	245			37	-1.866	59.642	11.805	1.00	47.64
MOTA	246	CG	ARG A			58.021	12.262	1.00	55.80
ATOM	247	CD	ARG A	37	-3.157			1.00	66.31
ATOM	248	NĖ	ARG A	37	-2.923	56.776	12.976		
ATOM	249	cz	ARG A	37	-3.859	55.865	13.219	1.00	72.83
ATOM	250	NH1	ARG A	37	-5.109	56.056	12.805	1.00	73.10
	251	NH2	ARG A	37	-3.538	54.753	13.872	1.00	79.16
MOTA		C	ARG A	37	1.035	57.393	9.627	1.00	38.74
ATOM	252			37	1.677	56.572	10.380	1.00	40.61
MOTA	253	0	ARG A			57.349	8.305	1.00	40.43
ATOM	254	N	ASP A	38	1.151		7.658	1.00	41.47
ATOM	255	CA	ASP A	38	2.086	56.440			49.45
ATOM	256	CB	ASP A	38	1.435	55.783	6.437	1.00	
ATOM	257	ÇG	ASP A	38	2.199	54.556	5.951	1.00	58.59
ATOM	258	OD1	ASP A	38	2.821	53.855	6.784	1.00	62.36
	259	OD2	ASP A	38	2.162	54.281	4.732	1.00 .	62.50
ATOM			ASP A	38	3.351	57.218	7.262	1.00	40.48
MOTA	260	C			4.213	57.461	8.105	1.00	36.69
ATOM	261	0	ASP A	38			5.991	1.00	41.01
MOTA	262	N	THR A	39	3.449	57.618		1.00	39.22
MOTA	263	CA	THR A	39	4.597	58.376	5.480		
ATOM	264	CB	THR A	39	4.675	58.298	3.948	1.00	39.18
ATOM	265	0G1	THR A	39	3.363	58.473	3.393	1.00	44.29
	266	CG2	THR A	39	5.221	56.968	3.519	1.00	43.28
ATOM		C	THR A	39	4.497	59.847	5.850	1.00	37.79
ATOM	267		THR A	39	5.505	60.538	5.973	1.00	41.79
ATOM	268	0				60.323	5.993	1.00	35.69
MOTA	269	N	GLY A	40	3.268		6.336	1.00	34.49
ATOM	270	CA	GLY A	40	3.038	61.711			32.99
MOTA	271	С	GLY A	40	2.842	62.524	5.078	1.00	
ATOM	272	0	GLY A	40	2.649	63.735	5.153	1.00	35.66
	273	N	PHE A	41	2.867	61.842	3.932	1.00	32.44
MOTA		CA	PHE A	41	2.713	62.465	2.617	1.00	30.35
MOTA	274				3.986	62.260	1.780	1.00	23.42
MOTA	275	CB	PHE A	41		63.225	2.094	1.00	19.36
MOTA	276	CG	PHE A	41	5.094			1.00	19.44
ATOM	277	CD1	PHE A	41	6.079	62.899	3.013		
ATOM	278	CD2	PHE A	41	5.161	64.455	1.454	1.00	20.61
	279	CEl	PHE A	41	7.120	63.790	3.292	1.00	21.76
ATOM		CE2	PHE A	41	6.192	65.350	1.723	1.00	19.48
ATOM	280			41	7.173	65.018	2.642	1.00	20.92
MOTA	281	CZ	PHE A			61.855	1.840	1.00	30.54
ATOM	282	С	PHE A	41	1.558		1.988	1.00	33.65
MOTA	283	0	PHE A	41	1.269	60.671			29.43
ATOM	284	N	PHE A	42	0.900	62.662	1.016	1.00	
ATOM	285	CA	PHE A	42	-0.179	62.172	0.171	1.00	28.45
	286	СВ	PHE A	42	-1.473	61.872	0.953	1.00	28.60
MOTA		CG	PHE A	42	-2.292	63.083	1.332	1.00	26.83
MOTA	287		PHE A	42	-3.186	63.655	0.431	1.00	26.89
MOTA	288	CDI	FAE A	7.2	3.200				

ATCM	289	CD2	PHE A	42	-2.218	63.612	2.613	1.00	28.60
ATOM	290	CEL	PHE A	42	-3.998	64.734	0.803	1.00	22.24
ATOM	291	CE2	PHE A	42	-3.030	64.692	2.993	1.00	28.04
	292	cz	PHE A	42	-3.919	65.249	2.081	1.00	22.14
ATOM	293	C	PHE A	42	-0.416	63.122	-0.979	1.00	30.71
MOTA		0	PHE A	42	-0.046	64.297	-0.908	1.00	32.62
MOTA	294		TYR A	43	-0.911	62.580	-2.084	1.00	31.35
MOTA	295	N	TYR A	43	-1.200	63.386	-3.257	1.00	27.25
ATOM	296	CA		43	-0.851	62.641	-4.556	1.00	25.54
MOTA	297	СЗ	TYR A		0.573	62.844	-5.054	1.00	21.56
MOTA	298	CG	TYR A	43		61.841	-4.942	1.00	19.07
MOTA	299	CD1	TYR A	43	1.524	62.034	-5.386	1.00	17.94
MOTA	300	CE1	TYR A	43	2.835		-5.628	1.00	23.58
MOTA	301	CD2	TYR A	43	0.966	64.047		1.00	15.91
MOTA	302	CE2	TYR A	43	2.272	64.246	-6.068	1.00	16.09
ATOM.	303	CZ	TYR A	43	3.198	63.241	-5.946		15.37
MOTA	304	HO	TYR A	43	4.498	63.456	-6.375	1.00	
ATOM .	305	С	TYR A	43	-2.673	63.735	-3.249	1.00	29.51
ATOM	306	0	TYR A	43	-3.528	62.861	-3.163	1.00	26.39
ATOM	307	N	ALA A	44	-2.960	65.026	-3.252	1.00	32.50
ATOM	308	CA	ALA A	44	-4.327	65.497	-3.290	1.00	32.14
ATOM	309	CЗ	ALA A	44	-4.448	66.834	-2.586	1.00	31.97
ATOM	310	С	ALA A	44	-4.580	65.658	-4.769	1.00	31.97
ATOM	311	ō	ALA A	44	-3.968	66.506	-5.414	1.00	33.03
	312	Ŋ	VAL A	45	-5.416	64.790	-5.317	1.00	33.76
MOTA	313	CA	VAL A	45	-5.741	64.824	-6.729	1.00	35.03
ATOM		CB	VAL A	45	-5.548	63.440	-7.353	1.00	36.59
ATOM	314	CG1	VAL A	45	-6.543	62.454	-6.770	1.00	40.19
ATOM	315		VAL A	45	-5.656	63.525	-8.861	1.00	47.08
MOTA	316	CG2	VAL A	45	-7.184	65.291	-6.866	1.00	36.63
ATOM	317	C			-7.960	65.177	-5.917	1.00	42.25
MOTA	318	0	VAL A	45	-7.538	65.823	-8.034	1.00	36.71
MOTA	319	N	ASN A	46		66.349	-8.294	1.00	35.51
MOTA	320	CA	ASN A	46	-8.883		-7.942	1.00	42.00
MOTA	321	CB	ASN A	46	-9.956	65.320	-9.144	1.00	51.81
MOTA	322	CG	ASN A	46	-10.436	64.547		1.00	58.83
MOTA	323	OD1	ASN A	46	-11.513	64.813	-9.671		54.06
MOTA	324	ND2	ASN A	46	-9.641	63.582	-9.588	1.00	32.25
MOTA	325	C	ASN A	46	-9.121	67.618	-7.494	1.00	
MOTA	326	0	ASN A	46	-10.206	67.848	-6.996	1.00	35.38
ATOM	327	N	HIS A	47	-8.093	68.452	-7.409	1.00	34.05
ATOM	328	CA	HIS A	47	-8.106	69.718	-6.659	1.00	34.39
MOTA	329	СВ	HIS A	47	-6.674	70.088	-6.306	1.00	29.40
ATOM	330	CG	HIS A	47	-5.716	69.842	-7.425	1.00	26.18
ATOM	331	CD2	HIS A	47	-4.906	68.789	-7.686	1.00	27.13
ATOM	332	ND1	HIS A	47	-5.573	70.709	-8.486	1.00	29.56
ATOM	333	CE1	HIS A	47	-4.717	70.199	-9.355	1.00	29.92
	334	NE2	HIS A	47	-4.299	69.034	-8.894	1.00	29.91
ATOM		C	HIS A	47	-8.740	70.890	-7.397	1.00	35.30
ATOM	335	0	HIS A	47	-8.889	71.972	-6.825	1.00	36.82
ATOM	336		GLY A	48	-8.955	70.710	-8.700	1.00	36.56
ATOM	337	N	GLY A	48	-9.578	71.732	-9.528	1.00	37.05
ATOM	338	CA		48	-8.759	72.959	-9.879	1.00	40.00
ATOM	339	C	GLY A				-10.196	1.00	46.68
ATOM	340	0	GLY A	48	-9.321	74.004 72.819	-9.913	1.00	37.89
MOTA	341	N	ILE A	49	-7.440		-10.220	1.00	36.05
MOTA	342	CA	ILE A	49	-6.568	73.948	-9.082	1.00	31.81
MOTA	343	CB	ILE A	49	-5.546	74.191		1.00	28.58
ATOM	344	CG2	ILE A	49	-4.522	75.255	-9.488		29.79
ATOM	345	CG1	ILE A	49	-6.287	74.596	-7.807	1.00	
ATOM	346	CD1	ILE A	49	-5.425	74.629	-6.574	1.00	32.52
ATOM	347	С	ILE A	49	-5.815	73.686	-11.514	1.00	38.13
ATOM	348	C	ILE A	49	-5.297	72.581	-11.707	1.00	38.18
ATOM	349	N	ASN A	50	-5.749	74.701	-12.383	1.00	38.60
ATOM	350	CA	ASN A	50	-5.050	74.603	-13.663	1.00	38.30
ATOM	351	CB	ASN A	50	-5.453	75.726	-14.619	1.00	42.37
MOTA	352	CG	ASN A	50	-4.920	75.502	-16.033	1.00	46.03
	353	001	ASN A	50	-4.258	74.496	-16.314	1.00	46.67
ATOM		NTD2	ASN A	50	-5.195	76.445	-16.922	1.00	49.68
ATOM	354		ASN A	50	-3.544	74.614	-13.439	1.00	38.19
ATOM	355	C	ASN A	50		75.631	-13.581	1.00	36.43
ATOM	356	0		51		73.436	-13.086	1.00	39.42
MOTA	357	N	VAL A			73.165	-12.786	1.00	38.94
MOTA	358	CA	VAL A	51		71.734	-12.182	1.00	36.89
MOTA	359	CB	. VAL A	51		70.802	-13.040	1.00	39.25
MOTA	360	CG1	VAL A	51		70.802	-10.756	1.00	37.13
MOTA	361	CG2	VAL A	51	-1.103	11.131	20		

ATOM	362	С	VAL A	51	-0.804	73.346	-14.025	1.00	40.42
MOTA	363	ō	VAL A	51	0.370	73.688	-13.923	1.00	40.47
	364	N	GLN A	52	-1.404	73.193	-15.198	1.00	43.48
ATOM	365	CA	GLN A	52	-0.658	73.335	-16.439	1.00	46.46
MOTA	366	CB	GLN A	52	-1.461	72.753	-17.607	1.00	54.80
ATOM		CG	GLN A	52	-1.828	71.265	-17.427	1.00	64.12
ATOM	367		GLN A	52	-0.603	70.340	-17.338	1.00	70.98
MOTA	368	CD			0.494	70.696	-17.774	1.00	73.27
MOTA	369	OE1	GLN A	52		69.140	-16.788	1.00	71.68
MOTA	370	NE2	GLN A	52	-0.799		-16.694	1.00	42.90
MOTA	371	C	GLN A	52	-0.250	74.787		1.00	42.08
MOTA	372	0	GLN A	52	0.932	75.081	-16.876	1.00	40.10
MOTA	373	N	ARG A	53	-1.212	75.704	-16.649		40.21
MOTA	374	CA	ARG A	53	-0.902	77.119	-16.860	1.00	
MOTA	375	CB	ARG A	53	-2.161	77.981	-16.766	1.00	39.62
ATOM	376	CG	ARG A	53	-1.896	79.468	-16.979	1.00	46.56
ATOM	377	CD	ARG A	53	-3.084	80.302	-16.558	1.00	55.52
	378	NE	ARG A	53	-3.456	80.002	-15.180	1.00	69.72
ATOM	379	cz	ARG A	53	-4.707	79.854	-14.750	1.00	75.43
ATOM			ARG A	53	-5.728	79.988	-15.589	1.00	79.20
ATOM	380	NH1		53	-4.936	79.529	-13.485	1.00	80.30
MOTA	381	NH2	ARG A		0.112	77.592	-15.818	1.00	40.89
MOTA	382	С	ARG A	53		78.436	-16.103	1.00	42.68
MOTA	383	0	ARG A	53	0.967		-14.617	1.00	40.83
MOTA	384	N	LEU A	54	0.015	77.025		1.00	36.14
ATOM	385	CA	LEU A	54	0.906	77.354	-13.513		
MOTA	386	CB	LEU A	54	0.481	76.583	-12.263	1.00	36.52
ATOM	387	CG	LEU A	54	1.431	76.620	-11.068	1.00	35.31
ATOM	388	CD1	LEU A	54	1.581	78.057	-10.586	1.00	33.45
ATOM	389	CD2	LEU A	54	0.904	75.710	-9.969	1.00	36.19
ATOM	390	С	LEU A	54	2.380	77.073	-13.829	1.00	36.31
	391	ō	LEU A	54	3.231	77.935	-13.618	1.00	37.16
MOTA		N	SER A	55	2.695	75.883	-14.335	1.00	34.98
MOTA	392		SER A	55	4.090	75.558	-14.645	1.00	36.10
MOTA	393	CA		55	4.261	74.066	-14.929	1.00	32.09
ATON	394	CB	SER A		3.071	73.521	-15.455	1.00	41.05
ATOM	395	OG	SER A	55		76.377	-15.804	1.00	37.67
MOTA	396	С	SER A	55	4.618		-15.925	1.00	41.07
ATOM	397	0	SER A	55	5.789	76.752		1.00	37.35
ATOM	398	N	GLN A	56	3.740	76.688	-15.744	1.00	38.51
ATOM	399	CA	GLN A	56	4.105	77.460	-17.919		46.09
MOTA	400	CB	GLN A	56	2.940	77.439	-18.902	1.00	
MOTA	401	CG	GLN A	56	3.138	78.188	-20.191	1.00	58.62
ATOM	402	CD	GLN A	56	1.811	78.422	-20.902	1.00	71.60
ATOM	403	OEl	GLN A	56	1.007	77.494	-21.071	1.00	75.28
ATOM	404	NE2	GLN A	56	1.560	79.672	-21.296	1.00	74.89
MOTA	405	С	GLN A	56	4.496	78.893	-17.560	1.00	36.41
ATOM	406	o	GLN A	56	5.611	79.312	-17.848	1.00	35.97
	407	N	LYS A	57	3.599	79.629	-16.905	1.00	35.19
MOTA	403	CA	LYS A	57	3.869	81.015	-16.514	1.00	34.22
ATOM			LYS A	57	2.710	81.567	-15.693	1.00	35.10
ATOM	409	CB		57	1.443	81.768	-16.469	1.00	41.47
MOTA	410	CG	LYS A	57	1.644	82.849	-17.492	1.00	49.86
ATOM	411	CD	LYS A		0.507	82.868	-18.477	1.00	58.96
MOTA	412	CE	LYS A	57		83.914	-19.507	1.00	67.82
MOTA	413	NZ	LYS A	57	0.740		-15.691	1.00	36.94
MOTA	414	С	LYS A	57	5.147	81.106	-15.875	1.00	38.60
ATOM	415	0	LYS A	57	5.963	82.014		1.00	37.65
ATOM	416	N	THR A	58	5.277	80.172	-14.753		35.48
ATOM	417	CA	THR A	58	6.426	80.066	-13.865	1.00	36.09
ATOM	418	CB	THR A	58	6.215	78.911	-12.846	1.00	
ATOM	419	OG1	THR A	58	5.257	79.317	-11.862	1.00	30.91
ATOM	420	CG2	THR A	58	7.503	78.549	-12.142	1.00	43.44
ATOM	421	C	THR A	58	7.696	79.833	-14.665	1.00	35.79
		ō	THR A	58	8.686	80.531	-14.463	1.00	37.07
MOTA	422	N	LYS A	59	7.667	78.865	-15.577	1.00	38.20
ATOM	423		LYS A	59	8.832	78.573	-16.397	1.00	40.23
ATOM	424	CA		59	8.540	77.444	-17.391	1.00	46.70
MOTA	425	CB	LYS A			77.071	-18.254	1.00	58.45
MOTA	426	CG	LYS A	59	9.744		-19.053	1.00	69.21
MOTA	427	CD	LYS A	59	9.534	75.783		1.00	76.48
MOTA	428	CE	LYS A	59	10.831	75.350	-19.769	1.00	75.66
ATOM	429	NZ	LYS A	59	10.728	74.041	-20.510		40.20
ATOM	430	С	LYS A	59	9.199	79.846	-17.134	1.00	
ATOM	431	0	LYS A	59	10.364	80.239	-17.167	1.00	41.89
ATOM	432	N	GLU A	60	8.186	80.531	-17.653	1.00	41.30
ATOM	433	CA	GLU A	60	8.395	81.777	-18.379	1.00	42.90
ATOM	434	СВ	GLU A	60	7.059	82.362	-18.851	1.00	50.15
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	475	CG	GLU A	60	6.405	81.626	-20.026	1.00	57.31
ATOM ATOM	435 436	CD	GLU A	60	5.215	82.383	-20.605	1.00	63.82 58.21
ATOM	437	OE1	GLU A	60	4.233	81.733	-21.027	1.00 1.00	67.21
ATOM	438	OE2	GLU A	60	5.259	83.633	-20.644 -17.484	1.00	39.96
MOTA	439	c	GLU A	60	9.115 10.147	82.773 83.324	-17.859	1.00	42.99
MOTA	440	N O	GLU A PHE A	60 61	8.604	82.949	-16.274	1.00	35.82
MOTA	441 442	CA	PHE A	61	9.208	83.874	-15.325	1.00	34.12
MOTA MOTA	443	CB	PHE A	61	8.466	83.810	-13.978	1.00	30.54 25.45
MOTA	444	CG	PHE A	61	9.039	84.718	-12.918	1.00 1.00	20.40
ATOM	445	CD1	PHE A	61	8.905	86.093 84.193	-13.013 -11.835	1.00	23.25
MOTA	446	CD2	PHE A	61 61	9.730 9.449	26.928	-12.053	1.00	19.57
MOTA	447	CE1	PHE A PHE A	61	10.277	85.026	-10.875	1.00	22.69
ATOM	448 449	CZ	PHE A	61	10.133	86.399	-10.989	1.00	17.25
ATOM ATOM	450	c	PHE A	61	10.710	83.620	-15.115	1.00 1.00	32.38 30.20
ATOM	451	0	PHE A	61	11.536	84.499	-15.353 -14.714	1.00	34.34
ATOM	452	N	HIS A	62	11.064	82.407 82.076	-14.436	1.00	37.14
MOTA	453	CA	HIS A	62 62	12.458 12.556	80.693	-13.779	1.00	32.21
MOTA	454	CB CG	HIS A HIS A	62	12.181	80.696	-12.331	1.00	31.98
MOTA	455 456	CD2	HIS A	62	11.234	80.007	-11.652	1.00	29.94
MOTA MOTA	457	ND1	HIS A	62	12.792	81.519	-11.410	1.00	28.87 28.92
ATOM	458	CE1	HIS A	62	12.234	81.344	-10.228 -10.347	1.00	29.72
MOTA	459	NE2	HIS A	62	11.286	80.432 82.193	-15.599	1.00	41.35
MOTA	460	С	HIS A HIS A	62 62	13.437 14.604	82.546	-15.405	1.00	40.97
MOTA	461 462	и О	MET A	63	12.968	81.941	-16.809	1.00	43.02
MOTA MOTA	463	CA	MET A	63	13.867	82.018	-17.941	1.00	45.13
MOTA	464	CB	MET A	63	13.396	81.102	-19.070	1.00 1.00	51.35 63.00
ATOM	465	CG	MET A	63	13.180	79.653	-18.631 -17.665	1.00	73.59
MOTA	466	SD	MET A	63	14.560 15.229	78.941 77.786	-18.858	1.00	73.56
MOTA	467	CE	MET A MET A	63 63	14.052	83.438	-18.445	1.00	44.26
MOTA	468 469	С 0	MET A	63	15.126	83.781	-18.927	1.00	50.29
MOTA MOTA	470	N	SER A	64	13.041	84.283	-18.287	1.00	39.05 36.67
ATOM	471	CA	SER A	64	13.133	85.648	-18.782 -19.386	1.00 1.00	37.55
ATOM	472	СВ	SER A	64	11.798	86.062 86.008	-18.428	1.00	43.44
ATOM	473	og	SER A	64 64	10.763 13.611	86.739	-17.837	1.00	39.95
ATOM	474 475	C 0	SER A SER A	64	14.019	87.806	-18.296	1.00	45.98
MOTA MOTA	476.	N	ILE A	65	13.486	86.531	-16.530	1.00	41.66
ATOM	477	CA	ILE A	65	13.914	87.547	-15.568	1.00 1.00	37.23 35.14
ATOM	478	CB	ILE A	65	13.477	87.209 86.007	-14.108 -13.559	1.00	26.54
MOTA	479	CG2	ILE A	65 65	14.228 13.725	88.412	-13.207	1.00	31.65
MOTA	480	CG1	ILE A ILE A	65	12.960	88.365	-11.914	1.00	37.39
ATOM	481 482	C	ILE A	65	15.420	87.732	-15.672	1.00	38.75
MOTA MOTA	483	o	ILE A	65	16.165	86.757	-15.710	1.00	43.09 38.80
ATOM	484	N	THR A	66	15.857	88.980	-15.785 -15.924	1.00 1.00	39.81
ATOM	485	CA	THR A	66	17.278	89.281 90.544	-16.776	1.00	40.56
MOTA	486	CB	THR A	66 66	17.486 16.886	91.663	-16.113	1.00	47.40
ATOM	487	OG1 CG2	THR A	66	16.854	90.371	-18.139	1.00	41.17
ATOM ATOM	488	C	THR A	66	17.948	89.502	-14.580	1.00	39.84
ATOM	490	ō	THR A	66	17.291	89.829	-13.597	1.00 1.00	46.85 40.14
ATOM	491	N	PRO A	67	19.279	89.365 88.850	-14.524 -15.590	1.00	39.50
MOTA	492	CD	PRO A	67	20.152 20.037	89.557	-13.281	1.00	39.40
MOTA	493	CA	PRO A PRO A	67 67	21.482	89.273	-13.709	1.00	39.30
MOTA	494 495	CB CG	PRO A	67	21.459	89.446	-15.212	1.00	40.61
MOTA MOTA	496	c	PRO A	67	19.884	90.924	-12.604	1.00	39.27 42.45
ATOM	497	О	PRO A	67		91.012	-11.378	1.00 1.00	37.98
MOTA	498	N	GLU A	6 B		91.986 93.316	-13.387 -12.811	1.00	36.08
ATOM	499	CA	GLU A	68 68		94.425	-13.865	1.00	44.41
ATOM	500	CB CG	GLU A GLU A	68 68		94.408	-14.745	1.00	56.01
ATOM	501 502	CD	GLU A	68		93.426	-15.897	1.00	62.86
MOTA MOTA	502	OE1	_	68		93.599	-16.727	1.00	65.53 66.08
ATOM	504	OE2	GLU A	68		92.480	-15.972 -12.157	1.00 1.00	32.92
MOTA	505	C	GLU A	68		93.349 94.037	-11.158	1.00	37.34
MOTA	506	0	GLU A GLU A	68 69		92.633	-12.747	1.00	28.56
MOTA	507	N	ODO A						

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		CA	GLU A	69	15.977	92.560	-12.193	1.00	26.48
ATOM ATOM	508 509	C3	GLU A	69	14.927	91.889	-13.170	1.00	26.48
ATOM	510	CG	GLU A	69	14.696	92.647	-14.438	1.00	31.14 36.47
MOTA	511	CD	GLU A	69	13.480	92.145	-15.147 -14.875	1.00 1.00	41.34
ATOM	512	OE1	GLU A	69	12.385	92.682 91.195	-15.946	1.00	41.53
MOTA	513	OE2	GLU A	69	13.612 15.925	91.749	-10.900	1.00	26.61
MOTA	514	C	GLU A	69 69	15.925	92.086	-9.916	1.00	33.09
ATOM	515	0	GLU A LYS A	70	16.703	90.672	-10.902	1.00	23.31
ATOM	516 517	n Ca	LYS A	70	16.830	89.844	-9.719	1.00	18.07
MOTA	517 518	CB	LYS A	70	17.730	88.655	-10.000	1.00	16.10
MOTA MOTA	519	CG	LYS A	70	17.125	87.693	-10.978	1.00	16.50 19.40
ATOM	520	CD	LYS A	70	18.081	86.602	-11.323 -12.243	1.00 1.00	23.23
ATOM	521	CE	LYS A	70	17.421	85.611	-12.604	1.00	28.38
MOTA	522	NZ	LYS A	70	18.372	84.538 90.685	-8.596	1.00	22.66
MOTA	523	С	LYS A	70 70	17.397 16.836	90.725	-7.505	1.00	27.15
MOTA	524	0	LYS A TRP A	71	18.451	91.424	-8.891	1.00	21.96
ATOM	525	N CA	TRP A	71	19.101	92.274	-7.897	1.00	22.52
ATOM	526 527	CB	TRP A	71	20.321	92.982	-8.494	1.00	19.42
MOTA MOTA	528	CG	TRP A	71	21.037	93.865	-7.506	1.00	20.03 17.51
MOTA	529	CD2	TRP A	71	21.800	93.441	-6.366	1.00 1.00	15.91
ATOM	530	CE2	TRP A	71	22.293	94.604	-5.736 -5.809	1.00	19.70
ATOM	531	CE3	TRP A	71	22.103	92.194	-7.524	1.00	18.18
ATOM	532	CD1	TRP A	71	21.104	95.230 95.680	-6.466	1.00	21.55
ATCM	533	NEl	TRP A	71	21.859 23.089	94.559	-4.585	1.00	20.06
MOTA	534	CZ2	TRP A	71 71	22.897	92.147	-4.662	1.00	20.49
ATOM	535	CZ3 CH2	TRP A	71	23.373	93.324	-4.061	1.00	20.53
ATOM	536 537	C	TRP A	71	18.123	93.299	-7.359	1.00	23.60
ATOM ATOM	538	ō	TRP A	71	18.089	93.584	-6.155	1.00	24.12 23.56
ATOM	539	N	ASP A	72	17.327	93.860	-8.254	1.00 1.00	27.03
ATOM	540	CA	ASP A	72	16.358	94.859	7.860 -9.083	1.00	34.54
MOTA	541	CB	ASP A	72	15.853	95.630 96.534	-9.692	1.00	40.55
MOTA	542	CG	ASP A	72	16.921 18.116	96.375	-9.363	1.00	47.37
MOTA	543	OD1	ASP A	72 72	16.563	97.416	-10.502	1.00	50.79
MOTA	544	OD2 C	ASP A ASP A	72	15.208	94.309	-7.032	1.00	26.53
MOTA	545 546	0	ASP A	72	14.506	95.082	-6.384	1.00	33.99
MOTA MOTA	547	И	LEU A	73	15.055	92.989	-6.999	1.00	23.44
MOTA	548	CA	LEU A	73	13.998	92.353	-6.224	1.00	19.61 20.50
ATOM	549	CB	LEU A	73	13.219	91.372	-7.091 -8.201	1.00 1.00	20.73
MOTA	550	CG	LEU A	73	12.333	91.920 90.760	-8.945	1.00	10.89
MOTA	551	CD1	LEU A	73	11.692 11.280	92.830	-7.601	1.00	14.36
MOTA	552	CD2	LEU A	73 73	14.558	91.581	-5.049	1.00	19.51
MOTA	553	с 0	LEU A LEU A	73	13.811	91.098	-4.212	1.00	22.35
ATOM	554 555	N	ALA A	74	15.871	91.415	-5.019	1.00	20.26
MOTA MOTA	556	CA	ALA A	74	16.535	90.656	-3.965	1.00	18.26
ATOM	557	CB	ALA A	74	18.046	90.726	-4.146	1.00	17.07 19.57
ATOM	558	C	ALA A	74	16.163	91.106	-2.569	1.00 1.00	17.06
ATOM	559	0	ALA A	74	15.917	92.285	-2,344 -1.637	1.00	21.97
MOTA	560	N	ILE A	75	16.115	90.157 90.457	-0.239	1.00	18.37
ATOM	561	CA	ILE A	75	15.811 15.337	89.202	0.514	1.00	15.88
MOTA	562	CB	ILE A	75 75	14.056	88.700	-0.073	1.00	15.90
MOTA	563	CG2	ILE A ILE A	75	16.380	88.096	0.422	1.00	17.42
MOTA	564	CCI CDI		75	16.178	86.992	1.424	1.00	20.14
ATOM	565 566	c	ILE A	75		91.063	0.453	1.00	22.26
MOTA MOTA	567	ō	ILE A	75	18.155	91.028	-0.093	1.00	24.15
ATOM	568	N	ARG A	76	16.866	91.598	1.656	1.00 1.00	23.62 22.51
ATOM	569	CA	ARG A	76		92.244	2.423	1.00	25.41
ATOM	570	CB	ARG A	76		92.683	3.776 4.540	1.00	30.98
MOTA	571	CG	ARG A	76		93.622 93.958	5.878	1.00	39.61
MOTA	572	CD	ARG A	76		92.780	6.731	1.00	43.97
MOTA	573	NE	ARG A ARG A	76 76		92.675	7.719	1.00	46.12
MOTA	574	CZ NU1		76		93.678	7.995	1.00	44.59
ATOM	575 576	NH1 NH2	_	76		91.550	8.417	1.00	44.99
ATOM	576 577	C	ARG A	76		91.410	2.622	1.00	20.90
MOTA MOTA	578	ŏ	ARG A	76		91.939	2.667	1.00	21.19
ATOM	579	N	· ALA A	77		90.105	2.773 2.962	1.00 1.00	22.00 20.40
ATOM	580	CA	ALA A	77	7 20.175	89.219	2.302	1.00	20.10

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			ALA A	77	19.706	87.793	3.239	1.00	16.39
ΛΤΟΜ	581	CB	ALA A	77	21.127	89.245	1.770	1.00	24.32
MOTA	582	C	ALA A	77	22.275	88.824	1.889	1.00	29.02
ATOM	583	0	TYR A	73	20.643	89.704	0.618	1.00	25.15
MOTA	584	N		78	21.471	89.795	-0.587	1.00	19.05
MOTA	585	CA	TYR A	78	20.810	39.103	-1.764	1.00	16.11
ATOM	586	CB	TYR A		20.310	87.613	-1.613	1.00	16.70
ATOM	5 87	CG	TYR A	78	19.611	87.000	-1.114	1.00	15.71
ATOM	588	CD1	TYR A	78		85.625	-1.006	1.00	14.79
MOTA	589	CE1	TYR A	78	19.542	86.823	-1.987	1.00	17.98
MOTA	590	CD2	TYR A	79	21.821	85.458	-1.886	1.00	15.81
ATOM	591	CE2	TYR A	78	21.762	84.864	-1.394	1.00	19.26
ATOM	592	CZ	TYR A	78	20.624		-1.336	1.00	27.92
ATOM	593	OH	TYR A	78	20.563	B3.495	-0.952	1.00	18.90
ATOM	594	C	TYR A	78	21.735	91.233	-1.178	1.00	24.83
ATOM	595	0	TYR A	78	22.874	91.609	-1.046	1.00	20.12
ATOM	596	N	ASN A	79	20.672	92.025		1.00	23.74
ATOM	597	ÇA	ASN A	79	20.778	93.442	-1.396		21.09
MOTA	598	CB	ASN A	79	19.767	93.794	-2.491	1.00	20.38
ATOM	599	CG	ASN A	79	19.985	95.173	-3.071	1.00	
	600	OD1	ASN A	79	20.558	96.049	-2.437	1.00	24.59
MOTA	601	ND2	ASN A	79	19.511	95.37B	-4.283	1.00	17.81
ATOM	602	c	ASN A	79	20.563	94.310	-0.161	1.00	26.18
ATOM		o	ASN A	79	19.442	94.645	0.206	1.00	28.37
ATOM	603	N	LYS A	80	21.668	94.695	0.452	1.00	28.39
MOTA	604		LYS A	80	21.693	95.496	1.663	1.00	28.15
MOTA	605	CA	LYS A	80	23.145	95.869	1.926	1.00	30.31
MOTA	606	ÇB CC	LYS A	80	23.434	96.446	3.270	1.00	41.68
MOTA	607	CG	LYS A	80	24.934	96.530	3.472	1.00	49.85
MOTA	608	CD		80	25.290	97.287	4.739	1.00	56.09
MOTA	609	CE	LYS A	80	26.764	97.261	4.971	1.00	59.86
MOTA	610	NZ	LYS A		20.704	96.741	1.640	1.00	28.30
MOTA	611	С	LYS A	80		97.234	2.679	1.00	31.85
MOTA	612	0	LYS A	80	20.388	97.183	0.448	1.00	27.68
MOTA	613	N	GLU A	81	20.444	98.377	0.245	1.00	27.82
MOTA	614	CA	GLU A	81	19.631	98.738	-1.245	1.00	26.85
ATOM	615	CB	GLU A	81	19.700		-1.667	1.00	25.54
ATOM	616	CG	GLU A	81	18.936	99.974	-3.173	1.00	27.23
MOTA	617	CD	GLU A	81	18.843	100.115	-3.645	1.00	30.11
MOTA	618	OE1	GLU A	81	18.424	101.187	-3.892	1.00	35.72
MOTA	619	OE2	GLU A	81	19.177	99.153	0.685	1.00	28.54
ATOM	620	С	GLU A	81	18.163	98.261		1.00	32.85
ATOM	621	0	GLU A	81	17.592	99.190	1.260	1.00	28.51
MOTA	622	N	HIS A	82	17.544	97.125	0.400	1.00	26.34
ATOM	623	CA	HIS A	82	16.145	96.919	0.736	1.00	23.16
ATOM	624	CB	HIS A	82	15.547	95.839	-0.148		20.08
ATOM	625	CG	HIS A	82	15.992	95.898	-1.569	1.00	
ATOM	626	CD2	HIS A	82	16.006	96.906	-2.467	1.00	14.88 21.04
	627	ND1	HIS A	82	16.428	94.781	-2.241	1.00	
ATOM	628	CE1	HIS A	82	16.684	95.094	-3.493	1.00	20.58
ATOM		NE2	HIS A	82	16.433	96.382	-3.661	1.00	16.40
ATOM	629	C	HIS A	82	15.992	96.461	2.168	1.00	29.32
ATOM	630	0	HIS A	82	15.653	95.302	2.415	1.00	29.56
MOTA	631			83	16.193	97.366	3.113	1.00	32.90
MOTA	632	N	GLN A	83	16.084	97.006	4.517	1.00	36.06
MOTA	633	CA	GLN A	83	16.438	98.194	5.406	1.00	42.46
ATOM	634	CB	GLN A		17.942	98.406	5.566	1.00	54.39
MOTA	635	CG	GLN A	B3	18.637	97.224	6.227	1.00	60.00
MOTA	636	CD	GLN A	83		96.899	7.386	1.00	66.86
MOTA	637	OE1	GLN A	83	18.366	96.572	5.492	1.00	60.20
MOTA	638	NE2	GLN A	83	19.534	96.418	4.932	1.00	34.12
MOTA	639	С	GLN A	83	14.746		5.856	1.00	36.75
ATOM	640	0	GLN A	83	14.689	95.623	4.215	1.00	35.26
ATOM	641	N	ASP A	84		96.755	4.546	1.00	35.02
ATOM	642	CA	ASP A	84		96.260	4.158	1.00	47.91
MOTA	643	CB	ASP A	84	_	97.298		1.00	61.72
ATOM	644	CG	ASP A	84		98.611	4.925	1.00	68.07
ATOM	645	001	ASP A	84	11.115	99.673	4.344		69.22
ATOM	646	OD2		84	11.863	98.587	6.104	1.00	
MOTA	647	C	ASP A	84	11.987	94.912	3.931	1.00	30.42
	648	ŏ	ASP A	84	10.890	94.402	4.158	1.00	31.96
ATOM	649	N	GLN A	85		94.331	3.146	1.00	23.30
MOTA	650	CA	GLN A	85		93.058	2.537	1.00	20.72
ATOM		CB	GLN A	85	_	93.059	1.068	1.00	20.88
MOTA	651 653	CG	GLN A	85		94.019	0.236	1.00	23.30
ATCM	652 653	CD	GLN A	85		93.811	-1.235	1.00	32.07
MOTA	653	CD		_					

MOTA MOTA	654	OE1	GLN A	85	12.670	94.762			
ATOM		1700	GLN A	85	12.378	92.565	-1.666	1.00	31.81
	655	NE2 C	GLN A		13.286	91.930	3.242	1.00	22.01
MOTA	656 657	0	GLN A		14.485	91.736	3.061	1.00	25.61
MOTA	658	N	VAL A	86	12.551	91.171	4.038	1.00	21.04 20.72
MOTA MOTA	659	CA	VAL A	86	13.151	90.063	4.758	1.00 1.00	23.91
ATOM	660	CB	VAL A	86	12.835	90.127	6.271	1.00	24.41
ATOM	661	CG1	VAL A	86	13.522	88.996	6.993 6.856	1.00	24.17
ATOM	662	CG2	VAL A	86	13.272	91.445	4.204	1.00	20.58
MOTA	663	С	VAL A	86	12.717	88.713	3.990	1.00	29.31
ATOM	664	0	VAL A	86	13.554	87.851 88.530	3.990	1.00	18.86
MOTA	665	N	ARG A	87	11.417	87.270	3.467	1.00	18.95
MOTA	666	CA	ARG A	87	10.875 9.560	86.885	4.153	1.00	21.46
ATOM	667	CB	ARG A	87 8 7	9.591	86.566	5.630	1.00	24.00
MOTA	668	CG	ARG A ARG A	87	8.153	86.365	6.142	1.00	23.85
MOTA	669	CD	ARG A	87	7.549	85.127	5.647	1.00	26.86
MOTA	670	NE CZ	ARG A	87	6.252	84.833	5.742	1.00	24.59
MOTA	671	NH1	ARG A	87	5.412	85.691	6.300	1.00	22.47
MOTA	672	NH1	ARG A	87	5.803	83.654	5.333	1.00	22.94
MOTA	673	C	ARG A	87	10.548	87.409	1.989	1.00	17.44
ATOM	674 675	ō	ARG A	87	10.947	86.591	1.181	1.00	20.34
MOTA	676	N	ALA A	88	9.803	88.456	1.657	1.00	14.27 15.50
ATOM	677	CA	ALA A	88	9.353	88.708	0.296	1.00	11.55
MOTA MOTA	678	CB	ALA A	88	8.154	89.637	0.307	1.00 1.00	18.22
ATOM	679	С	ALA A	88	10.413	89.247	-0.630	1.00	24.16
ATOM	680	0	ALA A	88	11.122	90.190	-0.284	1.00	18.31
ATOM	681	N	GLY A	89	10.461	88.688	-1.837 -2.825	1.00	18.37
ATOM	682	CA	GLY A	89	11.437	89.103	-3.422	1.00	21.93
ATOM	683	C	GLY A	89	12.221	87.946 86.773	-3.262	1.00	23.18
ATOM	684	0	GLY A	89	11.853	88.286	-4.103	1.00	21.46
MOTA	685	N	TYR A	90	13.315 14.178	87.314	-4.767	1.00	17.61
MOTA	686	CA	TYR A	90 90	14.178	87.909	-6.098	1.00	14.11
MOTA	687	СВ	TYR A	90	14.701	86.895	-7.215	1.00	15.32
MOTA	688	CG	TYR A TYR A	90	13.827	86.705	-8.142	1.00	15.35
MOTA	689	CD1	TYR A	90	13.900	85.686	-9.100	1.00	17.27
ATOM	690	CE1	TYR A	90	15.963	86.050	-7.283	1.00	17.90
ATOM	691 692	CE2	TYR A	90	16.047	85.031	-8.236	1.00	18.10
MOTA	693	CZ	TYR A	90	15.010	84.855	-9.136	1.00	18.33
MOTA MOTA	694	OH	TYR A	90	15.056	83.829	-10.056	1.00	29.46 18.14
ATOM	695	С	TYR A	90	15.344	86.861	-3.881	1.00 1.00	19.67
ATOM	696	0	TYR A	90	15.877	87.636	-3.089	1.00	20.08
ATOM	697	N	TYR A	91	15.713	85.592	-4.013 -3.277	1.00	20.39
ATOM	698	CA	TYR A	91	16.819	84.976	-2.542	1.00	20.44
ATOM	699	CB	TYR A	91	16.354	83.713 83.965	-1.432	1.00	20.34
MOTA	700	CG	TYR A	91	15.353	84.566	-1.693	1.00	21.65
ATOM	701	CD1	TYR A	91	14.116 13.211	84.819	-0.677	1.00	16.23
ATOM	702	CE1	TYR A	91	15.651	83.622	-0.120	1.00	18.42
MOTA	703	CD2	TYR A	91 91	14.753	83.867	0.898	1.00	20.40
MOTA	704	CE2	TYR A	91	13.536	84.468	0.615	1.00	22.22
MOTA	705	CZ	TYR A	91	12.651	84.705	1.639	1.00	21.37
ATOM	706	OH	TYR A TYR A	91	17.819	84.603	-4.362	1.00	23.73
MOTA	707	С 0	TYR A	91	17.583	83.687	-5.154	1.00	24.20
ATOM	708	N	LEU A	92	18.894	85.374	-4.451	1.00	28.01
ATOM	709 71 0	CA	LEU A	92	19.909	85.160	-5.476	1.00	24.96
ATOM	711	СВ	LEU A	92	20.857	86.362	-5.534	1.00	24.17 19.59
MOTA MOTA	712	CG	LEU A	92	20.258	87.756	-5.635	1.00	23.44
ATOM	713	CD1	LEU A	92	21.353	88.782	-5.696	1.00 1.00	22.64
ATOM	714	CD2		92	19.406	87.837	-6.850	1.00	25.80
ATOM	715	С	LEU A	92	20.749	83.910	-5.283	1.00	25.07
ATOM	716	0	LEU A	92		83.382	-4.174	1.00	26.00
ATOM	717	N	SER A	93		83.440	-6.387 -6.358	1.00	27.05
ATOM	718	CA	SER A	93		82.307 81.584	-7.703	1.00	24.34
ATOM	719	CB	SER A	93			-8.776	1.00	26.84
MOTA	720	OG	SER A	93		82.479 82.942	-6.087	1.00	27.46
MOTA	721	С	SER A	93		84.125	-6.348	1.00	26.92
MOTA	722	0	SER A	93		82.178	-5.530	1.00	29.65
MOTA	723	N	ILE A	94 94		82.716	-5.234	1.00	31.96
MOTA	724	CA	ILE A	94	_	82.624	-3.740	1.00	33.15
	725	CB	THE M				-3.456	1.00	29.48
MOTA MOTA	726	CG:	2 ILE A	94	27.467	83.228	3.000		

MOTA	727	CG1	ILE A	94	25.025	83.358	-2.946	1.00	33.35
	728	CD1	ILE A	94	25.093	83.120	-1.463	1.00	36.58
ATOM	729	c	ILE A	94	26.753	81.863	-6.027	1.00	34.38
MOTA		0	ILE A	94	26.946	80.691	-5.717	1.00	36.74
MOTA	730	N	PRO A	95	27.339	82.423	-7.080	1.00	38.50
MOTA	731	CD	PRO A	95	27.368	83.872	-7.350	1.00	40.61
MOTA	732		PRO A	95	28.283	81.724	-7.947	1.00	40.90
MOTA	733	CA		95	28.917	82.854	-8.745	1.00	45.71
MOTA	734	CB	PRO A		28.765	84.049	-7.829	1.00	45.59
MOTA	735	CG	PRO A	95			-7.159	1.00	39.51
MOTA	736	С	PRO A	95	29.309	80.929	-6.310	1.00	42.47
MOTA	737	0	PRO A	95	30.004	81.477	-7.391	1.00	38.51
MOTA	738	N	GLY A	96	29.327	79.625		1.00	35.63
MOTA	739	CA	GLY A	96	30.259	78.752	-6.713	1.00	37.97
MOTA	740	С	GLY A	96	29.740	78.161	-5.424		39.52
ATOM	741	0	GLY A	96	30.126	77.062	-5.047	1.00	35.33
ATOM	742	N	LYS A	97	28.812	78.849	-4.777	1.00	
ATOM	743	CA	LYS A	97	28.318	78.365	-3.504	1.00	34.40
	744	CB	LYS A	97	28.555	79.419	-2.435	1.00	42.78
MOTA		CG	LYS A	97	29.982	79.900	-2.352	1.00	54.46
ATOM	745		LYS A	97	30.041	81.101	-1.428	1.00	65.72
ATOM	746	CD		97	31.450	81.651	-1.284	1.00	73.04
ATOM	747	CE	LYS A		31.498	82.894	-0.447	1.00	78.91
ATOM	74B	NZ	LYS A	97		77.959	-3.450	1.00	32.83
ATOM	749	С	LYS A	97	26.857		-2.683	1.00	34.44
ATOM	750	0	LYS A	97	26.501	77.068	-4.243	1.00	26.62
ATOM	751	N	LYS A	98	26.008	78.603		1.00	22.39
ATOM	752	CA	LYS A	98	24.574	78.319	-4.215		23.74
ATOM	753	CB	LYS A	98	23.876	79.351	-3.319	1.00	22.19
ATOM	754	CG	LYS A	98	22.362	79.269	-3.276	1.00	
ATOM	755	CD	LYS A	98	21.766	80.300	-2.335	1.00	22.81
	756	CE	LYS A	98	20.251	80.160	-2.241	1.00	22.30
ATOM		NZ	LYS A	98	19.547	80.977	-3.253	1.00	21.47
MOTA	757	C	LYS A	98	23.990	78.346	-5.614	1.00	21.39
MOTA	758		LYS A	98	24.076	79.355	-6.301	1.00	23.12
MOTA	759	0		99	23.427	77.225	-6.044	1.00	21.69
MOTA	760	N	ALA A		22.819	77.132	-7.369	1.00	23.49
ATOM	761	CA	ALA A	99		75.756	-7.983	1.00	21.77
MOTA	762	CB	ALA A	99	23.126	77.449	-7.439	1.00	22.78
MOTA	763	С	ALA A	99	21.301		-8.399	1.00	25.07
MOTA	764	0	ALA A	99	20.834	78.065	-6.420	1.00	20.36
ATOM	765	N	VAL A	100	20.547	77.040		1.00	17.58
MOTA	766	CA	VAL A	100	19.106	77.274	-6.388		16.99
ATOM	767	CB	VAL A	100	18.462	76.528	-5.196	1.00	14.03
ATOM	768	CG1	VAL A	100	16.971	76.786	-5.130	1.00	
ATOM	769	CG2	VAL A	100	18.722	75.044	-5.313	1.00	15.21
	770	c	VAL A	100	18.797	78.764	-6.277	1.00	20.86
ATOM	771	ō	VAL A	100	19.574	79.506	-5.697	1.00	25.82
MOTA		И	GLU A	101	17.696	79.201	-6.885	1.00	20.04
MOTA	772	CA	GLU A	101	17.236	80.595	-6.829	1.00	17.64
ATOM	773		GLU A	101	17.352	81.316	-8.185	1.00	22.33
ATOM	774	CB		101	18.682	81.355	-8.862	1.00	27.61
MOTA	775	CG	GLU A		18.654	82.264	-10.048	1.00	28.27
MOTA	776	CD	GLU A	101		82.803	-10.393	1.00	35.84
MOTA	777	OE1	GLU A	101	19.711	82.440	-10.656	1.00	33.44
MOTA	778	OE2	GLU A	101	17.591		-6.561	1.00	18.04
ATOM	779	С	GLU A	101	15.734	80.502	-6.977	1.00	20.27
MOTA	780	0	GLU A	101	15.095	79.542		1.00	15.18
ATOM	781	N	SER A	102	15.151	81.543	-5.989		14.63
ATOM	782	CA	SER A	102	13.727	81.512	-5.749	1.00	16.17
ATOM	783	СВ	SER A	102	13.372	80.575	-4.599	1.00	
	784	OG	SER A	102	14.095	80.881	-3.441	1.00	19.01
MOTA		c	SER A	102	13.172	82.883	-5.512	1.00	14.90
MOTA	785	õ	SER A	102	13.919	83.805	-5.226	1.00	16.69
ATOM	786		PHE A	103	11.871	83.018	-5.753	1.00	16.08
MOTA	787	N		103	11.135	84.261	-5.579	1.00	14.05
MOTA	788	CA	PHE A		10.561	84.710	-6.928	1.00	11.82
MOTA	789	СВ	PHE A	103		85.913	-6.849	1.00	14.83
MOTA	790	CG	PHE A	103	9.644		-6.601	1.00	16.95
MOTA	791	CD1	PHE A	103	10.149	87.189		1.00	11.21
ATOM	792	CD2	PHE A	103	8.279	85.773	-7.081		12.90
ATOM	793	CE1	PHE A	103	9.295	88.309	-6.583	1.00	10.94
ATOM	794	CE2	PHE A	103	7.425	86.879	-7.065	1.00	
	795	CZ	PHE A	103	7.936	88.146	-6.820	1.00	12.78
MOTA	796	c	PHE A	103		83.930	-4.607	1.00	14.85
ATOM	797	ō	PHE A	103		82.981	-4.822	1.00	14.06
ATOM		и	CYS A	104		84.710	-3.543	1.00	14.45
MOTA	798		CYS A	104		84.484	-2.548	1.00	14.61
ATOM	799	CA	CIO A	201	2.055				

						84.235	-1.194	1.00	14.79
ATOM	800	CB		104	9.509	84.235	0.215	1.00	18.12
MOTA	801	SG		104	8.386	85.662	-2.429	1.00	18.09
MOTA	802	С		104	7.896	86.821	-2.482	1.00	18.91
ATOM	803	0		104	8.322 6.500	85.367	-2.339	1.00	17.06
MOTA	804	N		105		86.403	-2.161	1.00	13.87
ATOM	805	CA		105	5.594 4.941	86.845	-3.486	1.00	12.35
ATOM	806	CB		105		85.830	-4.234	1.00	14.43
ATOM	807	CG		105	4.103	85.826	-4.110	1.00	9.55
MOTA	808	CD1		105	2.713	84.933	-4.832	1.00	7.61
ATOM	809	CE1		105	1.927	84.909	-5.112	1.00	11.05
MOTA	810	CD2		105	4.690	84.010	-5.846	1.00	13.52
ATOM	811	CE2		105	3.906	84.028	-5.699	1.00	15.44
ATOM	812	CZ		105	2.525	83.129	-6.395	1.00	18.33
ATOM	813	он	TYR A	105	1.733	85.967	-1.100	1.00	17.62
MOTA	814	С	TYR A	105	4.576	84.773	-0.820	1.00	14.49
ATOM	815	0	TYR A	105	4.412	86.954	-0.432	1.00	18.67
MOTA	816	N	LEU A	106	3.991		0.640	1.00	17.72
MOTA	817	CA	LEU A	106	3.031	86.742	1.844	1.00	15.11
MOTA	818	CB	LEU A	106	3.437	87.602	2.171	1.00	18.61
ATOM	819	CG	LEU A	106	4.930	87.554	3.384	1.00	18.40
MOTA	820	CD1	LEU A	106	5.237	88.376	2.391	1.00	20.22
ATOM	821	CD2	LEU A	106	5.358	86.124	0.237	1.00	19.75
ATOM	822	С	LEU A	106	1.594	87.078	-0.947	1.00	19.55
ATOM	823	0	LEU A	106	1.266	87.191	1.253	1.00	19.69
MOTA	824	N	ASN A	107	0.753	87.241	1.122	1.00	16.25
ATOM	825	CA	ASN A	107	-0.659	87.563		1.00	18.19
ATOM	826	CB	ASN A	107	-1.231	87.792	2.518	1.00	24.35
ATOM	827	CG	ASN A	107	-2.738	87.979	2.530 1.591	1.00	22.21
ATOM	828	001	ASN A	107	-3.332	88.525		1.00	16.86
ATOM	829	ND2	ASN A	107	-3.362	87.551	3.618	1.00	15.33
MOTA	830	С	ASN A	107	-0.817	88.812	0.279	1.00	16.38
ATOM	831	0	ASN A	107	-0.332	89.888	0.634	1.00	14.14
ATOM	832	N	PRO A	108	-1.497	88.686	-0.860	1.00	13.05
ATOM	833	CD	PRO A	108	-1.973	87.430	-1.466	1.00	14.52
ATOM	634	CA	PRO A	108	-1.712	89.818	-1.757	1.00	11.78
ATOM	835	СВ	PRO A	108	-2.552	89.206	-2.867	1.00	13.10
ATOM	836	CG	PRO A	108	-2.018	87.779	-2.916	1.00	15.10
	837	C	PRO A	108	-2.409	91.006	-1.113	1.00	15.99
ATOM	838	0	PRO A	108	-2.295	92.126	-1.595	1.00	16.27
MOTA	839	Ŋ	ASN A	109	-3.114	90.776	-0.014		18.12
MOTA	840	CA	ASN A	109	-3.838	91.855	0.649	1.00	17.89
MOTA	841	СВ	ASN A	109	-5.005	91.304	1.461	1.00	15.82
MOTA	842	CG	ASN A	109	-6.058	90.695	0.590	1.00	18.28
ATOM	843	OD1	ASN A	109	-6.374	91.228	-0.475	1.00	14.24
ATOM	844	ND2	ASN A	109	-6.578	89.549	1.001	1.00	19.06
MOTA	845	C	ASN A	109	-2.990	92.759	1.511	1.00	22.19
ATOM	846	ŏ	ASN A	109	-3.467	93.786	1.978	1.00	17.26
ATOM	847	N	PHE A	110	-1.762	92.349	1.791	1.00	13.51
MOTA	848	CA	PHE A	110	-0.879	93.168	2.588	1.00	11.28
ATOM	849	СВ	PHE A	110	0.304	92.345	3.068	1.00	14.89
MOTA		CG	PHE A	110	-0.054	91.343	4.110	1.00	
ATOM	850 851	CD1	DUE B	110	-1.296	91.384	4.727	1.00	14.80
MOTA		CD2	_	110	0.854	90.365	4.494	1.00	16.71
MOTA	852	CE1		110	-1.627	90.470	5.702	1.00	15.38
ATOM	853	CE2		110	0.532	89.440	5.474	1.00	14.69 18.74
ATOM	854	CZ	PHE A	110	-0.710	89.495	6.082	1.00	
MOTA	855	C C	PHE A	110	-0.404	94.363	1.787	1.00	16.88
MOTA	856	0	PHE A	110	0.469	94.243	0.930	1.00	21.88
MOTA	857	N	THR A	111	-1.032	95.509	2.004	1.00	18.68
MOTA	858	CA	THR A		-0.625	96.718	1.304	1.00	16.37
MOTA	859		THR A		-1.764	97.305	0.482	1.00	15.54
MOTA	860	CB			-2.723	97.911	1.355	1.00	18.30
MOTA	861	OG 1	·		-2.423	96.221	-0.337	1.00	11.84
MOTA	862	CG2	THR A		-0.219	97.692	2.389	1.00	18.43
MOTA	863	C		_	-0.284	97.360	3.564	1.00	23.70
MOTA	864	0	THR A		0.229	98.895	2.023	1.00	21.65
MOTA	865	N	PRO A		_	99.351	0.703	1.00	15.84
MOTA	866	CD				99.845	3.069	1.00	23.93
MOTA	B67	CA				100.969	2.272	1.00	21.58
ATOM	868	CB		_		100.236	1.079	1.00	19.10
ATOM	869	CG				100.371	3.954	1.00	28.77
	870	С	PRO A	. 112			. 001	1.00	34.33
MOTA			227	, ,,,,	-0 245	100.991	4.981	2.00	
MOTA MOTA	871 872	o N	PRO A			100.991 100.137	3.557	1.00	30.89

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1.TOM	873	CA	ASP A	113	-2.908	100.608	4.325	1.00	29.23
ATOM	874	CB	ASP A	113	-4.095	100.876	3.403	1.00	33.62
ATOM	875	CG	ASP A	113	-3.740	101.759	2.229	1.00	39.32
ATOM	876	OD1	ASP A	113	-3.551	102.980	2.420	1.00	38.82
ATOM	877	OD2	ASP A	113	-3.659	101.220	1.107	1.00	41.64
MOTA	878	C	ASP A	113	-3.313	99.552	5.330	1.00	26.58
MOTA	879	o	ASP A	113	-4.020	99.831	6.288	1.00	30.47
ATOM	880	И	HIS A	114	-2.875	98.327	5.090	1.00	22.11
MOTA		CA	HIS A	114	-3.203	97.223	5.964	1.00	18.51
MOTA	881	CB	HIS A	114	-2.562	95.954	5.434	1.00	18.88
MOTA	882	CG	HIS A	114	-3.154	94.695	5.980	1.00	20.47
MOTA	883	CD2	HIS A	114	-3.955	93.771	5.401	1.00	20.61
MOTA	884		HIS A	114	-2.905	94.243	7.255	1.00	21.89
MOTA	885	ND1	HIS A	114	-3.527	93.092	7.440	1.00	20.69
ATOM	886	CE1	HIS A	114	-4.170	92.784	6.331	1.00	16.26
MOTA	887	NE2	HIS A	114	-2.682	97.529	7.347	1.00	20.91
ATOM	888	c	HIS A	114	-1.511	97.821	7.518	1.00	23.53
ATOM	889	0	PRO A	115	-3.535	97.414	8.365	1.00	23.07
MOTA	890	N		115	-4.933	96.973	8.311	1.00	24.88
ATOM	891	CD	PRC A	115	-3.148	97.688	9.745	1.00	24.93
MOTA	892	CA	PRC A	115	-4.411	97.334	10.525	1.00	27.48
MOTA	893	CB	PRO A		-5.094	96.342	9.652	1.00	24.00
ATOM	894	CG	PRC A	115	-1.927	96.923	10.233	1.00	26.06
MOTA	895	C	PRO A	115	-1.127	97.456	10.991	1.00	32.32
ATOM	896	0	PRO A	115	-1.782	95.678	9.802	1.00	26.43
MOTA	897	N	ARG A	116		94.868	10.199	1.00	26.26
ATOM	898	CA	ARG A	116	-0.634	93.430	9.727	1.00	30.69
MOTA	899	CB	ARG A	116	-0.810	92.629	10.516	1.00	35.60
ATOM	900	CG	ARG A	116	-1.813	92.533	11.950	1.00	39.57
ATOM	901	CD	ARG A	115	-1.372	91.547	12.685	1.00	44.77
MOTA	902	NE	ARG A	116	-2.151	91.314	13.988	1.00	47.07
MOTA	903	CZ	ARG A	116	-2.021	91.997	14.721	1.00	44.22
MOTA	904	NH1	ARG A	116	-1.145	90.379	14.556	1.00	46.39
MOTA	905	NH2	ARG A	116	-2.758		9.653	1.00	27.56
MOTA	906	С	ARG A	116	0.681	95.416	10.276	1.00	28.41
MOTA	907	0	ARG A	116	1.727	95.273	8.473	1.00	28.17
ATOM	908	N	ILE A	117	0.624	96.021	7.835	1.00	28.31
ATOM	909	CA	ILE A	117	1.806	96.580	6.307	1.00	24.00
ATOM	910	CB	ILE A	117	1.584	96.734	5.644	1.00	23.25
MOTA	911	CG2	ILE A	117	2.790	97.357	5.668	1.00	20.98
MOTA	912	CG1	ILE A	117	1.315	95.372	5.596	1.00	16.97
MOTA	913	CD1	ILE A	117	2.506	94.482	8.490	1.00	34.06
ATOM	914	С	ILE A	117	2.140	97.930	8.742	1.00	40.01
MOTA	915	0	ILE A	117	3.308	98.237	8.797	1.00	34.32
MOTA	916	N	GLN A	118	1.111	98.716	9.446	1.00	31.25
MOTA	917	CA	GLN A	118	1.289	100.008		1.00	32.56
ATOM	918	CB	GLN A	118	-0.036	100.751	9.510	1.00	41.97
MOTA	919	CG	GLN A	118	-0.532	101.215	8.175	1.00	49.04
ATOM	920	CD	GLN A	118	-1.790	102.040	8.289	1.00	54.55
ATOM	921	OE1	GLN A	118	-2.349	102.203	9.374	1.00	54.77
ATOM	922	NE2	GLN A	118	-2.241	102.577	7.167		30.00
MOTA	923	С	GLN A	118	1.813	99.816	10.857	1.00 1.00	36.36
ATOM	924	0	GLN A	118	2.606	100.602	11.348	1.00	27.04
ATOM	925	N	ALA A	119	1.362	98.759	11.506	1.00	23.94
ATOM	926	CA	ALA A	119	1.801	98.470	12.851	1.00	23.97
ATOM	927	CB	ALA A	119	0.898	97.447	13.457		29.31
ATOM	928	С	ALA A	119	3.223	97.944	12.836	1.00	35.94
ATOM	929	0	ALA A	119	3.839	97.802	13.885	1.00	30.68
ATOM	930	N	LYS A	120	3.728	97.625	11.649	1.00	31.26
ATOM	931	CA	LYS A	120	5.068	97.075	11.497	1.00	32.35
ATOM	932	CB	LYS A	120	6.131	98.127	11.815	1.00	
ATOM	933	CG	LYS A	120	6.210	99.208	10.756	1.00	41.07
ATOM	934	CD	LYS A	120	7.461	100.047	10.893	1.00	53.39
ATOM	935	CE	LYS A	120	7.720	100.864	9.621	1.00	60.71
ATOM	936	NZ	LYS A		9.046	101.563	9.644	1.00	65.99
ATOM	937	C	LYS A		5.271	95.796	12.321	1.00	30.21
	938	ō	LYS A			95.633	13.014	1.00	34.12
MOTA	938	N	THR A			94.901	12.240	1.00	30.59
MOTA	939	CA	THR A			93.627	12.945	1.00	29.59
MOTA		CB	THR A			93.001	12.953	1.00	26.01
MOTA	941 942	0G1				93.993	13.347	1.00	29.93
MOTA		CG2				91.841	13.924	1.00	27.80
MOTA	943 944	C	THR A			92.685	12.203	1.00	31.22
ATOM	944	0	THR A			92.684	10.977	1.00	36.88
MOTA	242	9							

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					c 016	91.867	12.918	1.00	31.48
ATOM	946		PRO A 12		6.016	91.788	14.375	1.00	30.51
ATOM	947	CD	PRO A 12		6.173	90.939	12.260	1.00	29.39
ATOM	948	CA			6.936		13.428	1.00	28.00
	949	CB	PRO A 13		7.519	90.162		1.00	28.89
ATOM	950	CG	PRO A 1	22	7.524	91.147	14.508	1.00	29.95
MOTA	951	c	PRO A 1	22	6.213	89.993	11.324	1.00	33.22
MOTA		ō		22	5.017	89.759	11.499		30.79
MOTA	952				6.957	89.422	10.373	1.00	
MOTA	953	N			6.470	88.472	9.355	1.00	28.32
ATOM	954	CA			5.859	87.189	9.961	1.00	30.03
ATOM	955	CB				87.498	10.661	1.00	35.13
ATOM	956	OG1		23	4.648	86.507	10.897	1.00	31.48
ATOM	957	CG2	THR A 1	23	6.835		8.309	1.00	27.79
	958	С	THR A 1	23	5.505	89.028	7.377	1.00	29.06
ATOM	959	0	THR A 1	23	5.164	88.310		1.00	24.80
ATOM	960	N	HIS A 1	24	5.076	90.285	8.458	1.00	22.12
MOTA		CA		24	4.150	90.920	7.504		17.07
MOTA	961			24	3.072	91.740	8.226	1.00	
MOTA	962	CB		.24	2.285	90.948	9.215	1.00	13.05
MOTA	963	CG			1.035	90.435	9.145	1.00	18.78
MOTA	964	CD2		.24		90.529	10.420	1.00	15.62
MOTA	965	ND1		24	2.798	89.735	11.044	1.00	17.88
MOTA	966	CE1		124	1.907		10.292	1.00	17.44
	967	NE2	HIS A	L24	0.825	89.712	6.592	1.00	21.71
MOTA	968	С		L24	4.941	91.837		1.00	22.54
ATOM		o		L24	5.645	92.715	7.050		21.78
MOTA	969			125	4.819	91.532	5.295	1.00	
ATOM	970	N	*	125	5.538	92.455	4.339	1.00	20.92
MOTA	971	CA		125	6.787	91.730	3.852	1.00	23.07
MOTA	972	CB				91.998	4.651	1.00	24.04
ATOM	973	CG		125	8.023	91.132	4.222	1.00	24.79
ATOM	974	CD		125	9.169		3.012	1.00	24.03
	975	OE1	GLU A	125	9.457	91.049		1.00	31.23
MOTA	976	QE2	GLU A	125	9.793	90.539	5.107	1.00	21.05
MOTA		C		125	4.668	92.738	3.143		24.62
MOTA	977			125	3.660	92.080	2.930	1.00	
MOTA	978	0		126	5.091	93.694	2.339	1.00	21.65
MOTA	979	N		126	4.361	94.031	1.146	1.00	22.78
MOTA	980	CA			4.203	95.538	1.042	1.00	20.08
ATOM	981	CB		126		95.900	-0.229	1.00	17.38
ATOM	982	CG1	VAL A	126	3.508	96.028	2.228	1.00	20.49
MOTA	983	CG2	VAL A	126	3.405		-0.019	1.00	25.89
MOTA	984	С	VAL A	126	5.166	93.459	-0.099	1.00	30.48
	985	0	VAL A	126	6.380	93.667		1.00	21.77
MOTA		N	ASN A	127	4.511	92.683	-0.880		19.25
MOTA	986	CA	ASN A	127	5.174	92.053	-2.020	1.00	18.25
MOTA	987		ASN A	127	4.182	91.207	-2.830	1.00	
MOTA	988	CB		127	3.724	89.985	-2.095	1.00	16.94
MOTA	989	CG	ASN A		4.459	89.445	-1.286	1.00	16.08
ATOM	990	OD1	ASN A	127	2.512	89.528	-2.380	1.00	12.62
ATOM	991	ND2	ASN A	127		93.007	-2.975	1.00	19.23
MOTA	992	С	ASN A	127	5.857		-3.148	1.00	18.59
	993	0	ASN A	127	5.436	94.150	-3.556	1.00	18.95
MOTA	994	N	VAL A	128	6.948	92.525		1.00	23.17
MOTA		CA	VAL A	128	7.698	93.260	-4.561		21.82
MOTA	995		VAL A	128	9.228	93.403	-4.235	1.00	20.58
MOTA	996	CB		128	9.427	94.284	-3.027	1.00	20.55
ATOM	997	CG1	VAL A	128	9.880	92.055	-3.999	1.00	23.71
MOTA	998	CG2	VAL A		7.494	92.408	-5.808	1.00	23.82
ATOM	999	С	VAL A	128		91.183	-5.730	1.00	23.35
MOTA	1000	0	VAL A	128	7.486		-6.951	1.00	25.96
ATOM	1001	N	TRP A	129	7.312	93.050	-8.179	1.00	28.04
	1002	CA	TRP A	129	7.066	92.319		1.00	22.71
MOTA		CB	TRP A	129	5.604	92.476	-8.562		20.42
MOTA	1003		TRP A	129	4.646	91.925	-7.588	1.00	17.81
MOTA	1004	CC		129	4.254	90.557	-7.467	1.00	
MOTA	1005	CD2		129	3.222	90.505	-6.508	1.00	16.80
MOTA	1006	CE2			4.667	89.371	-8.084	1.00	17.14
MOTA	1007	CE3		129			-6.710	1.00	15.97
ATOM	1008	CD1		129	3.873	92.629	-6.063	1.00	17.97
ATOM	1009	NEI	_	129	3.008	91.784		1.00	19.47
	1010	CZ		129	2.597	89.313	-6.155	1.00	16.93
MOTA		CZ		129	4.048	88.188	-7.734		18.76
MOTA	1011			129	3.024	88.167	-6.780	1.00	
MOTA	1012	CH		129			-9.336	1.00	30.23
MOTA	1013	C	TRP A	129	_		-9.325	1.00	30.92
MOTA	1014	0	TRP A		_		-10.361	1.00	32.08
MOTA	1015	N	PRO A	130			-10.498	1.00	31.53
ATOM	1016	CD	PRO A	130			-11.503	1.00	33.41
	1017		PRO A	130			-12.308	1.00	31.40
ATOM	1018			130	9.109	91.192	-12.300		•
ATOM	1010								

28.64 1.00 -11 .986 90.364 7.926 PRO A 130 CG 35.25 1019 1.00 MOTA -12.298 93.521 PRO A 130 8.090 1020 С 36.95 ATOM 1.00 -12.146 93.651 6.869 130 PRO A 1021 38.98 1.00 ATOM -13.100 94.301 8.805 ASP A 131 N 1022 41.94 ATOM -13.92795.329 8.185 ASP A 131 CA 1.00 49.89 1023 MOTA -14.699 96.081 131 9.270 ASP A 1024 CB 59.35 1.00 MOTA -15.612 97.168 8.713 131 ASP A 1025 CG 60.33 ATOM -15.503 1.00 97.540 7.519 OD1 ASP A 131 1026 1.00 69.02 ATOM -16.448 97.667 9.499 ASP A 131 OD2 1027 40.13 ATOM 1.00 -14.895 94.732 7.160 ASP A 131 1028 С 1.00 39.39 ATOM -15.604 7.444 93.761 131 ASP A 1029 0 38.57 1.00 MOTA -14.933 95.343 5.983 N GLU A 132 1030 41.66 1.00 MOTA -15.796 94.906 4.895 GLU A 132 CA 1031 1.00 49.43 ATOM -15.594 95.805 GLU A 132 3.675 1032 CB 1.00 63.43 ATOM -14.742 95.210 2.565 132 GLU A 1033 CG 68.77 1.00 MOTA -15.455 1.767 94.123 132 GLU A CD 1034 73.49 MOTA -14.786 1.00 93.130 2.390 GLU A 132 OE1 ATOM 1035 1.00 70.44 -16.671 94.268 1.501 GLU A 132 1036 OE2 40.84 1.00 MOTA -17.269 94.919 5.249 132 С GLU A 1037 42.27 1.00 MOTA -17.998 93.984 4.925 132 GLU A 0 1038 40.91 MOTA -17.709 1.00 95.984 5.909 THR A 133 N 1039 1.00 42.12 MOTA -19.114 6.261 96.124 THR A 133 1040 CA 1.CO 43.93 ATOM -19.373 97,407 THR A 133 7.100 1041 CB 56.43 1.C0 MOTA -18.884 97.217 8.431 THR A 133 OG1 1042 1.00 42.47 MOTA -18.650 98.602 133 6.496 THR A CG2 40.83 1043 1.00 ATOM -19.576 7.045 94,908 THR A 133 С 45.82 1044 1.00 MOTA -20.650 94.369 6.800 133 THR A 0 1.00 1045 40.52 ATOM -18.717 94.450 LYS A 134 7.945 N 40.63 1046 1.00 ATOM -19.014 93.312 134 8.799 LYS A CA 1047 44.31 1.00 MOTA -18.233 93.429 10.109 134 CB LYS A 50.92 1048 1.00 MOTA -18.437 94.742 10.852 LYS A 134 CG 1049 1.00 56.36 MOTA -17.681 94.754 12.171 134 LYS A 1050 CD 64.21 1.00 ATOM -17.809 96.096 12.883 134 LYS A 1051 CE 72.09 1.00 MOTA -17.026 96.104 14.159 134 ΝZ LYS A 40.31 1052 MOTA 1.00 -18.737 91.950 8.176 LYS A 134 c 1053 1.00 45.00 MOTA -19.348 90.955 134 8.553 LYS A 1054 0 1.00 38.10 MOTA -17.763 91.875 7.278 135 HIS A 1055 N 1.00 34.82 MOTA -17.425 90.601 135 6.649 CA HIS A 1056 28.65 1.00 MOTA -16.089 90.071 7.200 135 HIS A CB 21.40 MOTA 1057 -16.124 1.00 89.705 8.654 HIS A 135 CG 1058 1.00 22.41 ATOM -16.373 88.523 9.267 135 HIS A 1059 CD2 21.96 1.00 ATOM -15.880 90.614 9.659 135 HIS A ND1 1060 21.23 1.00 MOTA -15.978 90.012 10.832 135 CEL HIS A 26.04 1061 ATOM 1.00 -16.276 88,743 10.624 A ZIH 135 NE2 1062 1.00 37.00 MOTA -17.335 90.787 5.135 HIS A 135 С 1063 36.99 1.00 MOTA 90.584 -16.271 4.536 HIS A 135 38.00 1064 0 1.00 MOTA -18.465 91,128 136 4.489 PRO A N 1065 39.72 -19.820 1.00 ATOM 5.065 91.093 136 PRO A 1066 CD 35.57 1.00 ATOM -18.545 91.352 3.043 PRO A 136 CA 1067 33.63 MOTA 1.00 -20.048 91.478 PRO A 136 2.801 1068 CB 35.65 1.00 MOTA -20.639 90.651 136 3.882 PRO A CG 1069 1.00 33.54 ATOM -17.935 2.183 90.264 136 PRO A C 35.53 1070 ATOM 1.00 -18.231 2.348 89.083 0 PRO A 136 MOTA 1071 -17.053 1.00 33.66 90.680 GLY A 137 1.284 N 1072 35.45 ATOM -16.408 1.00 89.753 0.379 GLY A 137 1073 CA 1.00 36.34 ATOM -15.361 88.810 0.946 137 C GLY A 41.58 1074 1.00 MOTA -14.829 87.981 0.212 GLY A 137 0 34.29 1075 1.00 MOTA -15.029 88.926 PHE A 138 2.224 1076 N 1.00 32.30 MOTA -14.022 88.034 2.792 PHE A 138 1077 CA 1.00 33.36 MOTA -13.960 88.175 4.315 138 CB PHE A 1078 29.73 1.00 MOTA -12.959 87.272 4.960 138 CG PHE A 31.50 MOTA 1079 -13.026 1.00 4.770 85.902 PHE A 138 1080 CD1 1.00 30.02 MOTA -11.924 87.796 5.718 PHE A 138 CD2 32.69 1081 1.00 ATOM 85.061 -12.070 5.322 PHE A 138 CEl 30.29 1082 1.00 MOTA -10.965 B6.974 138 6.272 PHE A CE2 1083 1.00 33.63 MOTA -11.035 85.600 6.075 PHE A 138 1084 CZ 31.05 1.00 MOTA -12.639 88.259 2.178 PHE A 138 С 29.39 1085 1.00 MOTA -12.029 87.323 1.653 138 PHE A O 26.99 1086 MOTA -12.169 1.00 89.502 2.205 139 GLN A N 1087 28.51 MOTA -10.861 1.00 1.662 89.816 GLN A 139 CA 1088 1.00 23.97 MOTA -10.581 91.314 1.751 GLN A 139 CB 1089 27.92 -9.275 1.00 MOTA 91.725 GLN A 139 1.090 CG 32.88 1090 1.00 -8.982 MOTA 93.216 GLN A 139 1.192 CD 1091 MOTA

ATOM	1092	OE1	GLN A	139	1.943	93.950	-9.632	1.00	32.97
	1093	NE2	GLN A	139	0.440	93.668	-7.987	1.00	31.33
MOTA		C	GLN A	139	0.222	89.332	-10.734	1.00	33.84
MOTA	1094				-0.126	88.663	-9.754	1.00	36.68
ATOM	1095	0	GLN A	139		89.609	-11.752	1.00	37.09
ATOM	1096	N	ASP A	140	-0.592		-11.747	1.00	35.96
ATOM	1097	CA	ASP A	140	-2.003	89.206			
MOTA	1098	CB	ASP A	140	-2.736	89.776	-12.972	1.00	40.62
ATOM	1099	CG	ASP A	140	-2.672	91.300	-13.044	1.00	49.63
	1100	OD1	ASP A	140	-3.391	91.955	~12.266	1.00	51.54
MOTA		OD2	ASP A	140	-1.906	91.840	-13.875	1.00	56.38
MOTA	1101			140	-2.140	87.684	-11.694	1.00	34.15
MOTA	1102	С	ASP A			87.149	-11.023	1.00	35.48
MOTA	1103	0	ASP A	140	-3.024			1.00	29.30
ATOM	1104	N	PHE A	141	-1.258	86.981	-12.389	1.00	29.22
MOTA	1105	CA	PHE A	141	-1.305	85.530	-12.373		
ATOM	1106	CB	PHE A	141	-0.296	84.942	-13.368	1.00	26.63
ATOM	1107	CG	PHE A	141	0.113	83.526	-13.051	1.00	32.93
	1108	CD1	PHE A	141	-0.721	82.456	-13.364	1.00	37.47
MOTA				141	1.312	83.263	-12.388	1.00	36.97
MOTA	1109	CD2	PHE A			81.143	-13.016	1.00	37.55
MOTA	1110	CE1	PHE A	141	-0.373		-12.035	1.00	37.91
MOTA	1111	CE2	PHE A	141	1.667	81.956		1.00	36.70
ATOM	1112	CZ	PHE A	141	0.821	80.895	-12.349		
ATOM	1113	С	PHE A	141	-0.971	85.033	-10.969	1.00	31.10
ATOM	1114	0	PHE A	141	-1.720	84.264	-10.369	1.00	34.39
		N	ALA A	142	0.162	85.493	-10.454	1.00	27.56
ATOM	1115		ALA A	142	0.657	85.091	-9.149	1.00	23.24
MOTA	1116	CA			1.969	85.792	-8.880	1.00	26.02
ATOM	1117	CB	VTV V	142		85.313	-7.995	1.00	23.50
ATOM	1118	С	ALA A	142	-0.317		-7.094	1.00	23.30
MOTA	1119	0	ALA A	142	-0.438	84.480			24.11
ATOM	1120	N	GLU A	143	-1.013	86.437	-8.022	1.00	
ATOM	1121	CA	GLU A	143	-1.969	86.750	-6.970	1.00	26.83
ATOM	1122	СВ	GLU A	143	-2.403	88.211	-7.077	1.00	27.46
		CG	GLU A	143	-1.262	89.196	-6.890	1.00	30.94
MOTA	1123		GLU A	143	-1.733	90.618	-6.681	1.00	36.67
MOTA	1124	CD			-0.906	91.448	-6.250	1.00	40.24
ATOM	1125	OE1	GLU A	143			-6.943	1.00	40.10
MOTA	1126	OE2	GLU A	143	-2.921	90.916		1.00	29.25
ATOM	1127	С	GLU A	143	-3.183	85.824	-7.018		31.43
ATOM	1128	0	GLU A	143	-3.640	85.318	-5.989	1.00	
ATOM	1129	N	GLN A	144	-3.699	85.596	-8.219	1.00	30.46
	1130	CA	GLN A	144	-4.843	84.725	-8.392	1.00	28.86
MOTA			GLN A	144	-5.275	84.696	-9.858	1.00	38.80
MOTA	1131	CB		144	-5.529	83.852	-10.139	1.00	58.07
ATOM	1132	CG	GLN A			84.269	-9.309	1.00	67.99
MOTA	1133	CD	GLN A	144	-7.754			1.00	72.49
MOTA	1134	OE1	GLN A	144	-8.542	83.420	-8.876		74.56
MOTA	1135	NE2	GLN A	144	-7.922	85.573	-9.099	1.00	
MOTA	1136	С	GLN A	144	-4.449	83.339	-7.938	1.00	25.81 .
	1137	ō	GLN A	144	-5.201	82.669	-7.239	1.00	30.61
MOTA		N	TYR A	145	-3.259	82.905	-8.335	1.00	26.62
MOTA	1138			145	-2.788	81.590	-7.944	1.00	22.39
MOTA	1139	CA	TYR A			81.286	-8.505	1.00	21.02
ATOM	1140	CB	TYR A	145	-1.393			1.00	23.34
MOTA	1141	CG	TYR A	145	-O.B95	79.930	-8.047		21.49
ATOM	1142	CD1	TYR A	145	-1,603	78.770	-8.356	1.00	
ATOM	1143	CE1	TYR A	145	-1.224	77.533	-7.846	1.00	19.67
	1144	CD2	TYR A	145	0.221	79.814	-7.219	1.00	23.57
MOTA		CE2	TYR A	145	0.607	78.579	-6.705	1.00	20.74
MOTA	1145			145	-0.122	77.449	-7.024	1.00	20.82
MOTA	1146	CZ	TYR A			76.231	-6.518	1.00	24.24
ATOM	1147	ОН	TYR A	145	0.250		-6.422	1.00	22.08
MOTA	1148	С	TYR A	145	-2.791	81.487			24.79
ATOM	1149	0	TYR A	145	-3.231	80.482	-5.875	1.00	
ATOM	1150	N	TYR A	146	-2.360	82.546	-5.740	1.00	20.10
	1151	CA	TYR A	146	-2.329	82.552	-4.283	1.00	16.74
ATOM			TYR A	146	-1.933	83.931	-3.773	1.00	15.16
MOTA	1152	CB		146	-1.652	83.991	-2.289	1.00	19.44
MOTA	1153	CG	TYR A				-1.807	1.00	19.08
MOTA	1154	CD1	TYR A	146	-0.345	84.050		1.00	17.67
ATOM	1155	CE1	TYR A	146	-0.088	84.132	-0.458		18.53
ATOM	1156	CD2	TYR A	146	-2.691	84.023	-1.364	1.00	
ATOM	1157	CE2	TYR A	146	-2.438	84.103	-0.002	1.00	17.70
ATOM	1158	cz	TYR A	146	-1.137	84.161	0.437	1.00	19.52
		OH	TYR A	146	-0.875	84.226	1.774	1.00	25.01
MOTA	1159		TYR A	146	-3.704	82.193	-3.770	1.00	17.31
MOTA	1160	C				81.274	-2.967	1.00	21.09
MOTA	1161	0	TYR A	146	-3.859		-4.284	1.00	17.15
MOTA	1162	N	TRP A	147	-4.713	82.882		1.00	17.97
ATOM	1163	CA	TRPA	147	-6.087	82.620	-3.881		
ATOM	1164	CB	TRP A	147	-6.988	83.752	-4.363	1.00	14.43

					30				
	1166	CG	TRP A	147	-6.580	85.045	-3.742	1.00	16.44
ATOM	1165	CD2	TRP A	147	-6.371	85.292	-2.353	1.00	15.61
ATOM	1166	CE2	TRP A	147	-5.855	86.588	-2.222	1.00	13.55
ATOM	1167	CE3	TRP A	147	-6.556	84.520	-1.195	1.00	13.91
АТОМ	1168	CD1	TRP A	147	-6.209	86.192	-4.389	1.00	17.35
ATOM	1169		TRP A	147	-5.760	87.122	-3.482	1.00	16.82
ATOM	1170	NE1	TRP A	147	-5.526	87.138	-0.999	1.00	15.71
ATOM	1171	CZ2	TRP A	147	-6.225	85.066	0.023	1.00	13.54
MOTA	1172	CZ3			-5.714	86.365	C.114	1.00	14.81
ATOM	1173	CH2	TRP A	147	-6.589	81.238	-4.308	1.00	19.27
ATOM	1174	C	TRP A	147	-7.401	80.620	-3.611	1.00	19.35
ATOM	1175	0	TRP A	147	-6.059	80.731	-5.416	1.00	18.47
ATOM	1176	N	ASP A	148		79.405	-5.904	1.00	19.12
MOTA	1177	CA	ASP A	148	-6.416	79.141	-7.275	1.00	24.71
ATOM	1178	CB	ASP A	148	-5.801	79.536	-8.404	1.00	26.35
MCTA	1179	CG	ASP A	148	-6.709		-6.136	1.00	32.40
MCTA	1180	OD1	ASP A	148	-7.852	79.946	-9.569	1.00	32.06
ATOM	1181	OD2	ASP A	148	-6.284	79.423	-4.927	1.00	18.33
MCTA	1182	С	ASP A	148	-5.973	78.328	-4.486	1.00	23.56
MCTA	1183	0	ASP A	148	-6.797	77.536	-4.603	1.00	18.47
MOTA	1184	N	VAL A	149	-4.679	78.276		1.00	15.91
MOTA	1185	CA	VAL A	149	-4.193	77.281	-3.647	1.00	14.54
ATOM	1186	CB	VAL A	149	-2.678	77.225	-3.513	1.00	17.43
MOTA	1187	CG1	VAL A	149	-2.136	76.214	-4.447		16.13
ATOM	1188	CG2	VAL A	149	-2.055	78.590	-3.729	1.00	18.11
ATOM	1189	С	VAL A	149	-4.757	77.549	-2.271	1.00	
MOTA	1190	О	VAL A	149	-4.897	76.633	-1.467	1.00	21.98
MOTA	1191	N	PHE A	150	-5.032	78.814	-1.979	1.00	20.18
ATOM	1192	CA	PHE A	150	-5.629	79.173	-0.703	1.00	21.84
ATOM	1193	CB	PHE A	150	-5.931	80.666	-0.669	1.00	19.11
ATOM	1194	CG	PHE A	150	-6.441	81.152	0.651	1.00	22.86
ATCM	1195	CD1	PHE A	150	-5.572	81.689	1.586	1.00	22.65
ATOM	1196	CD2	PHE A	150	-7.794	81.091	0.955	1.00	26.06
ATOM	1197	CE1	PHE A	150	-6.045	82.158	2.800	1.00	26.82
ATOM	1198	CE2	PHE A	150	-8.274	81.561	2.171	1.00	22.46
ATOM	1199	CZ	PHE A	150	-7.400	82.093	3.091	1.00	25.45
ATOM	1200	C	PSE A	150	-6.933	78.382	-0.581	1.00	24.16
ATOM	1201	ō	PHE A	150	-7.214	77.769	0.453	1.00	28.22
	1202	N	GLY A	151	-7.715	78.379	-1.656	1.00	22.56
ATOM	1203	CA	GLY A	151	-8.970	77.659	-1.656	1.00	20.54
ATOM	1204	c	GLY A	151	-8.761	76.182	-1.417	1.00	21.70
ATOM	1205	õ	GLY A	151	-9.504	75.565	-0.654	1.00	25.57
ATOM	1206	N	LEU A	152	-7.745	75.610	-2.049	1.00	18.26
ATOM	1207	CA	LEU A	152	-7.460	74.193	-1.876	1.00	19.08
ATOM		CB	LEU A	152	-6.304	73.770	-2.782	1.00	19.81
ATOM	1208	CG	LEU A	152	-5.838	72.318	-2.680	1.00	19.38
ATOM	1209	CD1	LEU A	152	-6.969	71.381	-3.103	1.00	16.96
ATOM	1210	CD2	LEU A	152	-4.615	72.127	-3.538	1.00	11.13
MOTA	1211		LEU A	152	-7.093	73.916	-0.425	1.00	24.24
ATOM	1212	C	LEU A	152	-7.667	73.032	0.219	1.00	26.47
MOTA	1213	0	SER A	153	-6.141	74.682	0.095	1.00	24.56
MOTA	1214	N	SER A	153	-5.687	74.517	1.468	1.00	22.73
ATOM	1215	CA		153	-4.591	75.528	1.770	1.00	21.22
MOTA	1216	CB	SER A	153	-3.572	75.448	0.787	1.00	21.77
ATOM	1217	oG	SER A		-6.842	74.665	2.444	1.00	22.43
ATOM	1218	С	SER A	153	-7.041	73.823	3.316	1.00	24.75
MOTA	1219	0	SER A	153	-7.642	75.698	2.245	1.00	22.50
MOTA	1220	N	SER A	154		75.950	3.088	1.00	25.72
MOTA	1221	CA	SER A	154	-8.792	77.108	2.497	1.00	25.08
MOTA	1222	CB	SER A	154	-9.588	77.472	3.328	1.00	38.08
MOTA	1223	QG	SER A	154	-10.672		3.218	1.00	29.51
MOTA	1224	С	SER A	154	-9.662	74.688	4.310	1.00	33.28
MOTA	1225	0	SER A	154	-10.140	74.356	2.121	1.00	31.53
MOTA	1226	N	ALA A	155	-9.786	73.941	2.099	1.00	29.45
MOTA	1227	CA	ALA A	155	-10.582	72.713		1.00	30.93
ATOM	1228	CB	ALA A	155	-11.038	72.396	0.696	1.00	28.62
MOTA	1229	С	ALA A	155	-9.846	71.523	2.683		32.89
ATOM	1230	0	ALA A	155	-10.473	70.657	3.281	1.00	28.48
ATOM	1231	N	LEU A	156	-8.530	71.455	2.485	1.00	
ATOM	1232	CA	LEU A	156	-7.739	70.355	3.032	1.00	23.61
ATOM	1233	CB	LEU A	156	-6.323	70.368	2.476	1.00	23.88
MOTA	1234	CG	LEU A	156	-6.043	69.867	1.061	1.00	20.69
ATOM	1235	CD1	. LEU A		-4.587	70.132	0.729	1.00	20.27
ATOM	1236	CD2		156	-6.325	68.394	0.958	1.00	20.84
ATOM	1237	C	LEU A	156	-7.688	70.488	4.547	1.00	25.37

ATOM	1238	0	LEU A	156	-7.558	69.490	5.262	1.00	26.18
ATOM	1239	N	LEU A	157	-7.773	71.726	5.036	1.00	25.81
						71.981	6.474	1.00	25.36
MOTA	1240	CA	LEU A	157	-7.770				
ATOM	1241	CB	LEU A	157	-7.557	73.466	6.775	1.00	19.73
ATOM	1242	CG	LEU A	157	-6.135	74.027	6.673	1.00	16.53
ATOM	1243	CD1	LEU A	157	-6.111	75.418	7.270	1.00	17.68
		CD2	LEU A	157	-5.165	73.150	7.431	1.00	15.33
MOTA	1244								
ATOM	1245	С	LEU A	157	-9.076	71.470	7.107	1.00	29.31
MOTA	1246	0	LEU A	157	-9.111	71.079	8.279	1.00	32.51
ATOM	1247	N	LYS A	158	-10.161	71.500	6.341	1.00	33.23
		CA	LYS A	158	-11.442	70.982	6.814	1.00	31.84
ATOM	1248								
MOTA	1249	CB	LYS A	158	-12.553	71.355	5.837	1.00	33.31
ATOM	1250	CG	LYS A	158	-12.780	72.845	5.745	1.00	34.09
ATOM	1251	CD	LYS A	158	-13.850	73.167	4.738	1.00	41.31
ATOM	1252	CE	LYS A	158	-14.186	74.649	4.754	1.00	47.04
						74.923	3.886	1.00	56.43
ATOM	1253	NZ	LYS A	158	-15.362				
ATOM	1254	С	LYS A	158	-11.289	69.460	6.905	1.00	30.71
MOTA	1255	0	LYS A	158	-11.770	68.836	7.848	1.00	34.49
MOTA	1256	N	GLY A	159	-10.570	68.884	5.942	1.00	30.71
			GLY A	159	-10.313	67.453	5.930	1.00	28.93
ATOM	1257	CA							
ATOM	1258	С	GLY A	159	-9.447	67.040	7.111	1.00	30.81
ATOM	1259	0	GLY A	159	-9.690	66.003	7.732	1.00	34.67
MOTA	1260	N	TYR A	160	-8.440	67.851	7.431	1.00	28.73
	1261	CA	TYR A	160	-7.556	67.575	8.556	1.00	29.15
ATOM							8.556	1.00	29.86
MOTA	1262	CB	TYR A	160	-6.378	68.554			
ATOM	1263	CG	TYR A	150	-5.191	68.055	7.780	1.00	28.35
ATOM	1264	CD1	TYR A	160	-4.828	68.607	6.543	1.00	26.01
ATOM	1265	CE1	TYR A	160	-3.727	68.124	5.830	1.00	25.65
		CD2	TYR A	160	-4.412	67.017	8.279	1.00	26.25
ATOM	1266						7.584		26.20
MOTA	1267	CE2	TYR A	160	-3.321	66.530		1.00	
ATOM	1268	CZ	TYR A	160	-2.977	67.076	6.365	1.00	28.06
MOTA	1269	OH	TYR A	160	-1.884	66.546	5.711	1.00	25.91
ATOM	1270	С	TYR A	160	-8.313	67.646	9.884	1.00	32.18
			TYR A	160	-8.034	66.884	10.812	1.00	33.45
ATOM	1271	0						1.00	33.22
MOTA	1272	N	ALA A	161	-9.262	68.571	9.976		
ATOM	1273	CA	ALA A	161	-10.074	68.734	11.180	1.00	30.35
ATOM	1274	CB	ALA A	161	-10.995	69.919	11.021	1.00	30.11
MOTA	1275	С	ALA A	161	-10.890	67.470	11.433	1.00	31.40
		ō	ALA A	161	-10.863	66.911	12.525	1.00	32.99
ATOM	1276								30.20
ATOM	1277	N	LEU A	162	-11.593	67.012	10.405	1.00	
ATOM	1278	CA	LEU A	162	-12.405	65.813	10.501	1.00	31.99
ATOM	1279	CB	LEU A	162	-13.156	65.587	9.186	1.00	32.01
ATOM	1280	CG	LEU A	162	-14.116	66.719	8.801	1.00	33.82
			LEU A	162	-14.867	66.349	7.545	1.00	34.17
MOTA	1281	CD1							
MOTA	1282	CD2	LEU A	162	-15.096	66.997	9.933	1.00	34.51
MOTA	1283	С	LEU A	162	-11.580	64.580	10.877	1.00	32.42
MOTA	1284	0	LEU A	162	-12.002	63.767	11 .696	1.00	35.19
MOTA	1285	N	ALA A	163	-10.396	64.453	10.291	1.00	34.99
				163	-9.504	63.325	10.573	1.00	32.51
MOTA	1286	CA	ALA A						
MOTA	1287	CB	ALA A	163	-8.289	63.395	9.670	1.00	28.78
ATOM	1288	С	ALA A	163	-9.061	63.273	12.038	1.00	30.64
ATOM	1289	0	ALA A	163	-8.745	62.217	12.571	1.00	30.60
ATOM	1290	N	LEU A	164	-8.995	64.428	12.674	1.00	29.60
			LEU A	164	-8.578	64.478	14.054	1.00	30.80
MOTA	1291	CA							
MOTA	1292	CB	LEU A	164	-7.639	65.666	14.274	1.00	30.81
ATOM	1293	CG	LEU A	164	-6.284	65.550	13.570	1.00	29.00
MOTA	1294	CD1	LEU A	164	-5.583	66.875	13.576	1.00	30.09
ATOM	1295	CD2	LEU A	164	-5.434	64.509	14.245	1.00	28.45
						64.529	14.993	1.00	34.67
MOTA	1296	C	LEU A	164	-9.778				37.15
MOTA	1297	0	LEU A	164		64.811	16.179	1.00	
ATOM	1298	N	GLY A	165	-10.964	64.258	14.455	1.00	35.40
ATOM	1299	CA	GLY A	165	-12.172	64.258	15.265	1.00	34.11
	1300	c c	GLY A		-12.637	65.606	15.781	1.00	35.01
ATOM						65.680	16.694	1.00	38.99
ATOM	1301	0	GLY A	165					
MOTA	1302	N	LYS A	166		66.678	15.208	1.00	34.42
ATOM	1303	CA	LYS A	166	-12.490	68.021	15.619	1.00	34.45
ATOM	1304	СВ	LYS A	166	-11.267	68.924	15.571	1.00	31.93
	1305	CG	LYS A		-10.232	68.560	16.594	1.00	32.57
ATOM							17.956	1.00	34.75
ATOM	1306	CD	LYS A		-10.711	68.973			
MOTA	1307	CE	LYS A	166		68.522	19.022	1.00	38.74
MOTA	1308	NZ .	LYS A	166	-10.078	69.161	20.313	1.00	40.84
ATOM	1309	c	LYS A		-13.557	68.535	14.666	1.00	37.47
		0	LYS A		-13.825	67.901	13.642	1.00	41.52
ATOM	1310	J	U. J M			0	·		

N TOM	1311	N	GLU A	167	-14.189	69.660	14.994	1.00	38.98
ATOM	1312	CA	GLU A		-15.202	70.205	14.094	1.00	41.09
ATOM		CB	GLU A		-15.947	71.398	14.713	1.00	45.19
ATOM	1313	CG	GLU A		-15.110	72.638	15.025	1.00	55.15
ATOM	1314	CD	GLU A		-14.565	72.661	16.448	1.00	61.94
ATOM	1315		GLU A		-14.118	73.742	16.887	1.00	62.92
MOTA	1316	OE1			-14.584	71.611	17.131	1.00	64.60
MOTA	1317	OE2	GLU A		-14.525	70.605	12.780	1.00	41.39
MOTA	1318	C	GLU A			70.935	12.761	1.00	41.98
MOTA	1319	0	GLU A		-13.339	70.581	11.692	1.00	39.45
ATOM	1320	N	GLU A	168	-15.285		10.365	1.00	38.77
MOTA	1321	CA	GLU A	168	-t4.779	70.918	9.387	1.00	40.01
MOTA	1322	CB	GLU A		-15.943	70.959	7.951	1.00	42.60
ATOM	1323	CG	GLU A	168	-15.535	70.844		1.00	45.09
ATOM	1324	CD	GLU A	168	-16.721	70.635	7.056		51.44
ATOM	1325	OE1	GLU A	168	-17.408	71.626	6.740	1.00 1.00	50.69
ATOM	1326	OE2	GLU A	168	-16.979	69.477	6.677		37.65
ATOM	1327	С	GLU A	168	-13.965	72.212	10.255	1.00	
ATOM	1328	0	GLU A	168	-12.966	72.270	9.533	1.00	37.39
ATOM	1329	N	ASN A	169	-14.389	73.247	10.965	1.00	34.88
ATOM	1330	CA	ASN A	169	-13.696	74.527	10.925	1.00	31.36
ATOM	1331	СВ	ASN A	169	-14.710	75.654	10.976	1.00	38.29
ATOM	1332	CG	ASN A	169	-15.529	75.726	9.732	1.00	46.39
MOTA	1333	OD1	ASN A	169	-14.993	75.919	8.646	1.00	52.41
	1334	ND2	ASN A	169	-16.833	75.544	9.865	1.00	52.70
ATOM	1335	c	ASN A	169	-12.677	74.717	12.029	1.00	29.02
MOTA		ō	ASN A	169	-12.264	75.839	12.318	1.00	25.13
ATOM	1336	N	PHE A	170	-12.236	73.618	12.617	1.00	29.52
MOTA	1337		PHE A	170	-11.276	73.687	13.702	1.00	30.89
MOTA	1338	CA		170	-10.938	72.275	14.191	1.00	34.08
MOTA	1339	CB	PHE A	170	-10.030	72.248	15.377	1.00	38.01
MOTA	1340	CG	PHE A		-10.418	72.827	16.575	1.00	41.53
ATOM	1341	CD1	PHE A	170	-8.778	71.658	15.293	1.00	39.11
MOTA	1342	CD2	PHE A	170	-9.571	72.824	17.675	1.00	40.36
MOTA	1343	CE1	PHE A	170		71.649	16.385	1.00	41.21
MOTA	1344	CE2	PHE A	170	-7.925		17.580	1.00	42.47
MOTA	1345	CŽ	PHE A	170	-8.326	72.235	13.305	1.00	32.24
MOTA	1346	С	PHE A	170	-10.012	74.464	14.102	1.00	32.82
MOTA	1347	0	PHE A	170	-9.496	75.255		1.00	30.18
MOTA	1348	N	PHE A	171	-9.537	74.269	12.072	1.00	25.80
MOTA	1349	CA	PHE A	171	-8.338	74.959	11.595		21.23
ATOM	1350	CB	PHE A	171	-7.436	74.018	10.780	1.00	17.74
ATOM	1351	CG	PHE A	171	-6.801	72.922	11.584	1.00	
MOTA	1352	CD1	PHE A	171	-6.984	71.592	11.232	1.00	19.14
MOTA	1353	CD2	PHE A	171	-6.028	73.212	12.699	1.00	20.58
ATOM	1354	CE1	PHE A	171	-6.409	70.559	11.986	1.00	19.44
ATOM	1355	CE2	PHE A	171	-5.449	72.188	13.457	1.00	19.74
ATOM	1356	CZ	PHE A	171	-5.644	70.861	13.095	1.00	18.77
ATOM	1357	C	PHE A	171	-8.720	76.142	10.722	1.00	27.98
ATOM	1358	ō	PHE A	171	-8.301	77.282	10.968	1.00	26.96
MOTA	1359	N	ALA A	172	-9.573	75.874	9.737	1.00	27.10
	1360	Q	ALA A	172	-10.009	76.880	8.770	1.00	23.60
MOTA	1361	CB	ALA A	172	-10.996	76.276	7.798	1.00	20.83
ATOM		C	ALA A	172	-10.542	78.191	9.310	1.00	25.20
MOTA	1362		ALA A		-10.477	79.204	8.623	1.00	27.68
ATOM	1363	0		173	-11.044	78.195	10.540	1.00	27.56
MOTA	1364	N	ARG A		-11.573	79.429	11.098	1.00	28.04
MOTA	1365	CA	MG A		-12.374	79.170	12.377	1.00	29.47
MOTA	1366	CB	ARG A			79.001	13.633	1.00	35.23
MOTA	1367	CG	ARG A	173	-11.559		14.868	1.00	40.18
MOTA	1368	CD	MG A		-12.452	78.858 77.482	15.106	1.00	44.83
MOTA	1369	NΞ	MG A		-12.898		15.017	1.00	48.14
MOTA	1370	CZ	ARG A		-14.162	77.074		1.00	48.64
ATOM	1371	NH1	MG A	173		77.934	14.695	1.00	44.20
MOTA	1372	NH2	MG A		-14.468	75.800	15.240		30.23
ATOM	1373	С	MG A	173		80.401	11.355	1.00	
ATOM	1374	0	ARG A	173		81.591	11.584	1.00	32.24
ATOM	1375	N	HIS A	174	-9.206	79.889	11.314	1.00	28.30
MOTA	1376	CA	HIS A	174	-8.023	80.713	11.537	1.00	28.03
MOTA	1377	CB	HIS A	174	-7.051	79.999	12.473	1.00	25.87
	1378	CG	HIS A	174		79.688	13.816	1.00	26.33
MOTA	1379	CD2	HIS A	174		78.536	14.326	1.00	28.81
ATOM		ND1	HIS A	174		80.623	14.826	1.00	27.96
ATOM	1380	CE1	HIS A	174		80.059	15.900	1.00	28.08
ATOM	1381	NE2	HIS A	174		78.793	15.624	1.00	27.09
ATOM	1382		HIS A	174		81.064	10.235	1.00	27.63
MOTA	1383	С							

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							10.240	1.00	31.26
	1384	0 H	IS A 1		5.371	81.865	9.138	1.00	26.90
ATOM	1385		HE A 1	_	7.734	80.442	7.801	1.00	22.15
MOTA	1386		HE A 1		7.165	80.631	7.074	1.00	21.26
ATOM	1387		HE A 1	75 -	7.222	75.289	5.911	1.00	23.40
MOTA	1388		PHE A 1	75 -	6.293	79.176	4.803	1.00	20.93
MOTA				75 -	6.552	78.420		1.00	19.53
MOTA	1389			75 -	5.046	79.781	5.931	1.00	19.79
MOTA	1390				5.789	78.266	3.741	1.00	19.63
MOTA	1391				4.170	79.630	4.866	1.00	19.09
ATOM	1392				4.545	78.870	3.770		23.58
MOTA	1393		_	-	8.030	81.655	7.071	1.00	25.37
MOTA	1394	-			9.032	81.299	6.443	1.00	22.96
MOTA	1395	_			7.636	82.923	7.136	1.00	26.79
ATOM	1396				8.412	84.004	6.529	1.00	
ATOM	1397				8.991	84.922	7.619	1.00	32.23
MOTA	1398				9.711	84.185	8.752	1.00	37.22
ATOM	1399	CG		_		85.139	9.782	1.00	45.14
ATCM	1400	CD			10.312	86.065	10.408	1.00	51.76
	1401	CE	LYS A		-9.271		11.277	1.00	54.44
MOTA	1402	NZ	LYS A		-8.282	85.352	5.529	1.00	26.95
ATOM	1403	С	LYS A		-7.624	84.842	5.736	1.00	29.87
MOTA	1404	ō	LYS A		-6.447	85.150	4.485	1.00	24.40
MOTA		N		177	-8.308	85.327		1.00	20.13
MOTA	1405	CD.	PRO A	177	-9.714	85.067	4.146	1.00	19.31
ATCM	1406		PRO A		-7.685	86.133	3.445	1.00	16.22
ATOM	1407	CA	PRO A		-8.838	86.376	2.481		13.22
MOTA	1408	C3	PRO A	177	-9.687	85.187	2.664	1.00	21.14
ATOM	1409	CG		177	-7.084	87.434	3.903	1.00	25.46
ATOM	1410	C	PRO A	177	-6.096	87.883	3.349	1.00	26.69
ATOM	1411	0	PRO A		-7.660	88.049	4.917	1.00	
MOTA	1412	N	ASP A	178	-7.145	89.341	5.355	1.00	30.90
ATOM	1413	CA	ASP A	178	-8.220	90.162	6.073	1.00	40.73
MOTA	1414	CB	ASP A	178	_	89.377	7.153	1.00	58.65
ATOM:	1415	CG	ASP A	178	-8.927	88.411	6.813	1.00	67.55
	1416	ODl	ASP A	178	-9.660	89.731	8.344	1.00	69.29
MOTA	1417	OD2	ASP A	178	-8.754		6.183	1.00	25.93
MOTA	1418	С	ASP A	178	-5.891	89.303	6.225	1.00	27.92
ATOM	1419	5	ASP A	178	-5.154	90.282	6.828	1.00	20.77
MOTA	1420	N	ASP A	179	-5.620	88.180	7.645	1.00	20.37
MOTA		CA	ASP A	179	-4.432	88.129		1.00	24.28
MOTA	1421	CB	ASP A	179	-4.790	88.332	9.120	1.00	28.49
MOTA	1422	CG	ASP A	179	-5.553	87.157	9.717	1.00	32.76
MOTA	1423	ODl	ASP A	179	-5.957	86.249	8.967	1.00	34.31
MOTA	1424	OD2	ASP A	179	-5.750	87.134	10.953	1.00	20.24
MOTA	1425		ASP A	179	-3.550	86.912	7.499		22.73
MOTA	1426	C	ASP A	179	-2.568	86.807	8.224	1.00	18.73
MOTA	1427	0		180	-3.870	85.996	6.587	1.00	19.30
MOTA	1428	N	THR A	180	-3.035	84.809	6.453	1.00	
MOTA	1429	CA	THR A		-3.533	83.818	5.372	1.00	20.49
MOTA	1430	CB	THR A	180	-2.592	82.741	5.254	1.00	20.62
MOTA	1431	OG1	THR A	180		84.488	4.024	1.00	18.20
ATOM	1432	CG2	THR A	180	-3.657	85.144	6.173	1.00	22.74
ATOM	1433	C	THR A	180	-1.577	86.060	5.407	1.00	23.45
ATOM	1434	0	THR A	180	-1.269		6.826	1.00	22.30
ATOM	1435	N	LEU A	181	-0.689	84.402 84.558	6.661	1.00	19.63
	1436	CA	LEU A	181	0.752		8.023	1.00	11.22
MOTA	1437	CB	LEU A	181	1.450	84.460	8.947	1.00	8.88
MOTA	1438	CG	LEU A	181	1.280	85.655	10.332	1.00	7.59
ATOM		CE1			1.760	85.318	8.395	1.00	9.34
ATOM	1439	CD2			2.041	86.823		1.00	19.45
MOTA	1440	C	LEU A		1.315	83.488	5.702	1.00	22.17
MOTA	1441		LEU A		2.524	83.287	5.629	1.00	15.84
ATOM	1442	0	ALA A		0.441	82.775	5.003		13.71
MOTA	1443	N					4.072	1.00	15.01
ATOM	1444		ALA A				3.410	1.00	
ATOM	1445		ALA A				3.017	1.00	16.85
ATOM	1446	С	ALA A				2.723	1.00	15.28
ATOM	1447	0	ALA A				2.429	1.00	15.86
ATOM	1448		SER A				1.416	1.00	14.12
	1449		SER A				2.039	1.00	12.59
ATOM	1450		SER A				2.497	1.00	13.59
ATOM	1453		SER .	A 183				1.00	13.98
ATOM	1452	_	SER	A 183				1.00	17.17
ATOM		_	SER		3 3.60		0.031	1.00	15.35
MOTA	1453		VAL					1.00	
MOTA	1454				4 4.24		2 225	1.00	
MOTA	145					6 81.361		2.50	
ATOM	145	, ,,							

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					2 625	80.500	-4.554	1.00	11.12
ATOM	1457	CG1	VAL A	184	3.625	81.283	-2.994	1.00	14.34
MOTA	1458	CG2	VAL A	184	1.907	81.161	-2.479	1.00	13.94
ATOM	1459	С	VAL A	184	5.698	82.314	-2.459	1.00	15.07
ATOM	1460	0	VAL A	184	6.123	80.107	-2.722	1.00	16.12
ATOM	1461	N	VAL A	185	6.469		-3.095	1.00	18.01
ATOM	1462	CA	VAL A	185	7.871	80.237	-2.096	1.00	19.45
ATOM	1463	CB	VAL A	185	8.818	79.516	-2.528	1.00	14.07
ATOM	1464	CG1	VAL A	185	10.262	79.683	-0.708	1.00	17.49
ATOM	1465	CG2	VAL A	185	8.629	80.054	-4.438	1.00	18.98
ATOM	1466	С	VAL A	185	8.039	79.551	-4.585	1.00	20.19
	1467	0	VAL A	185	7.660	78.391		1.00	22.23
ATOM	1468	N	LEU A	186	8.541	80.282	-5.428	1.00	22.67
MOTA	1469	CA	LEU A	186	8.781	79.717	-6.760	1.00	17.46
MOTA	1470	C8	LEU A	186	8.468	80.748	-7.861	1.00	17.76
MOTA	1471	CG	LEU A	186	7.117	81.480	-7.844	1.00	19.25
ATOM	1472	CD1	LEU A	186 .	6.993	82.315	-9.092	1.00	12.57
MOTA	1473	CD2	LEU A	186.	5.970	80.514	-7.761		21.43
MOTA		C	LEU A	186	10.261	79.325	-6.800	1.00	21.60
MOTA	1474	0	LEU A	186	11.124	80.169	-7.058	1.00	
ATOM	1475		ILE A	187	10.555	78.065	-6.500	1.00	18.26
MOTA	1476	N	ILE A	187	11.929	77.586	-6.477	1.00	18.51
MOTA	1477	CA	ILE A	187	12.068	76.373	-5.547	1.00	17.33
MOTA	1478	C9		187	13.524	75.915	-5.484	1.00	17.55
MOTA	1479	CG2	ILE A	187	11.560	76.727	-4.152	1.00	14.78
MOTA	1480	CG1	ILE A		11,608	75.582	-3.201	1.00	12.56
MOTA	1481	CDI	ILE A	187	12.421	77.183	-7.858	1.00	24.55
ATCM	1482	С	ILE A	187	11.688	76.567	-8.632	1.00	28.10
MOTA	1483	0	ILE A	187	13.671	77.509	-8.158	1.00	27.00
ATOM	1484	Ŋ	ARG A	188	14.258	77.160	-9.447	1.00	27.28
ATOM	1485	CA	ARG A	188	14.250	78.405	-10.241	1.00	25.39
ATCM	1486	CB	ARG A	188		78.037	-11.466	1.00	26.11
ATCM	1487	CG	ARG A	188	15.481	79.207	-12.169	1.00	26.92
MOTA	1488	CD	ARG A	188	16.122	78.756	-13.448	1.00	33.43
ATOM	1489	NE	arg a	188	16.656		-14.176	1.00	37.61
ATOM	1490	CZ	ARG A	188	17.555	79.406	-13.779	1.00	40.25
ATOM	1491	NHl	MGA	188	18.054	80.567	-15.327	1.00	45.39
ATOM	1492	NH2	arg a	188	17.945	78.890	-9.302	1.00	27.56
ATOM	1493	С	ARG A	188	15.494	76.291	-8.644	1.00	28.16
MOTA	1494	0	ARG A	188	16.462	76.678	-9.921	1.00	28.98
ATOM	1495	N	TYR A	189	15.463	75.120		1.00	30.35
	1496	Q	TYR A	189	16.605	74.221	-9.901	1.00	28.57
MOTA	1497	Č8	TYR A	189	16.166	72.799	-9.600	1.00	27.58
ATOM	1498	CG	TYR A	189	15.715	72.610	-8.179	1.00	30.42
ATOM	1499	CD1	TYR A	189	14.363	72.586	-7.862		32.46
ATOM		CE1	TYR A	189	13.933	72.371	-6.555	1.00	25.30
MOTA	1500	CD2	TYR A		16.639	72.419	-7.154	1.00	27.43
MOTA	1501	CE2	TYR A		16.224	72.206	-5.846	1.00	
MOTA	1502		TYR A		14.866	72.182	-5.553	1.00	31.28
ATOM	1503	CZ	TYR A		14.434	71.980	-4.262	1.00	37.45
MOTA	1504	OH			17.225	74.335	-11.293	1.00	30.75
MOTA	1505	С	TYR A		16.643	73.905	-12.278	1.00	31.49
ATOM	1506	0	TYR A		18.396	74.974	-11.388	1.00	29.84
ATOM	1507	N	PRO A		19.157	75.502	-10.238	1.00	29.04
ATOM	1508	CD	PRO A		19.131	75.192	-12.631	1.00	29.41
MOTA	1509	CA	PRO A		20.122	76.271	-12,222	1.00	30.04
ATOM	1510	CB	PRO A			75.816	-10.845	1.00	27.63
MOTA	1511	CG	PRO A		20.508	74.005	-13.163	1.00	29.09
ATOM	1512	C	PRO I			73.057	-12.428	1.00	31.04
ATOM	1513	0	PRO I				-14.454	1.00	27.02
ATOM	1514	N	TYR			74.051	-15.054	1.00	25.82
ATOM	1515	ÇA	TYR .			73.025	-16.449	1.00	24.40
ATOM	1516	CB	TYR	A 191		72.611	-17.164	1.00	23.94
	1517	CG	TYR	A 191	21.677	71.805		1.00	24.85
MOTA	1518	CDI	1 TYR	A 191	21.959	0.497	-16.779		26.57
MOTA	1518	CE				69.779	-17.370	1.00	24.25
MOTA		CD				72.381	-18.169	1.00	22.72
MOTA	1520	CE:	_			71.674	-18.764	1.00	
MOTA	1521	CZ.				70.372	-18.359	1.00	27.36
ATOM	1522	OH.				69.655	-18.938	1.00	32.34
MOTA	1523		TYR			73.737	-15.167	1.00	26.75
MOTA	1524	C	TYR				-15.697	1.00	26.19
MOTA	1525	0	LEU				-14.620	1.00	27.75
MOTA	1526	N			_		-14.662	1.00	30.44
ATOM	1527	CA					-13.322	1.00	27.32
MOTA	1528	CB					-12.789	1.00	24.54
MOTA	1529	CG	, LEU						

									20 65
	1530	CD1	LEU A	192	24.644	75.909	-11.386	1.00	20.65 21.14
ATOM	1531	CD2		192	24.252	76.664	-13.738	1.00 1.00	34.74
MOTA	1532	c		192	25.856	72.673	-15.013	1.00	33.09
ATOM ATOM	1533	ō	LEU A	192	25.803	71.511	-14.586	1.00	36.86
MOTA	1534	N	ASP A	193	26.778	73.085	-15.867	1.00	42.70
MOTA	1535	CA	ASP A	193	27.877	72.250	-16.289	1.00	48.25
ATOM	1536	CB	ASP A	193	27.564	71.544	-17.600	1.00	52.17
ATOM	1537	CG	ASP A	193	28.732	70.728	-18.106	1.00	58.38
ATOM	1538	OD1	ASP A	193	29.125	70.928	-19.271	1.00	53.48
ATOM	1539	OD2	ASP A	193	29.266	69.897	-17.338	1.00	42.38
ATOM	1540	С	ASP A	193	29.032	73.196	-16.494 -17.461	1.00	46.89
ATOM	1541	0	ASP A	193	29.061	73.951		1.00	40.26
ATOM	1542	N	PRO A	194	29.994	73.178	-15.574	1.00	40.20
MOTA	1543	CD	PRO A	194	31.206	74.016	-15.565	1.00	38.87
MOTA	1544	CA	PRO A	194	29.956	72.294	-14.414	1.00	39.32
ATOM	1545	CB	PRO A	194	31.419	72.224	-14.018	1.00	39.54
ATOM	1546	CG	PRO A	194	31.863	73.644	-14.250	1.00	40.57
ATOM	1547	С	PRO A	194	29.082	72.863	-13.293	1.00	39.81
ATOM	1548	0	PRO A	194	28.773	74.065	-13.261	1.00	38.88
ATOM	1549	N	TYR A	195	28.667	71.976	-12.395	1.00	35.95
ATOM	1550	CA	TYR A	195	27.826	72.341	-11.269	1.00	33.96
MOTA	1551	CB	TYR A	195	26.869	71.187	-10.933	1.00	33.27
ATOM	1552	CG	TYR A	195	25.572	71.600	-10.255	1.00	32.32
MOTA	1553	CD1	TYR A	195	24.390	71.688	-10.984	1.00	31.47
	1554	CE1	TYR A	195	23.200	72.048	-10.381	1.00	29.66
ATOM	1555	CD2	TYR A	195	25.522	71.887	-8.889	1.00	27.38
ATOM	1556	CE2	TYR A	195	24.330	72.249	-8.276	1.00	27.54
ATOM	1557	CZ	TYR A	195	23.178	72.325	-9.030	1.00	25.96
MOTA	1558	OH	TYR A	195	21.996	72.665	-8.436	1.00	35.66
ATOM	1559	С	TYR A	195	28.726	72.624	-10.072	1.00	34.39
ATOM	1560	o	TYR A	195	29.616	71.832	-9.748	1.00	34.12
ATOM ATOM	1561	N	PRO A	196	28.505	73.762	-9.402	1.00	32.84
	1562	CD	PRO A	196	27.458	74.742	-9.730	1.00	34.92
MOTA	1563	CA	PRO A	196	29.270	74.183	-8.231	1.00	35.33
ATOM	1564	CB	PRO A	196	28.472	75.377	-7.735	1.00	36.48
MOTA	1565	CG	PRO A	196	27.915	75.951	-8.995	1.00	40.87
ATOM	1566	c	PRO A	196	29.276	73.076	-7.188	1.00	44.01
ATOM	1567	ō	PRO A	196	28.257	72.808	-6.558	1.00	46.54
MOTA	1568	N	GLU A	197	30.418	72.425	-7.013	1.00	49.40
ATOM	1569	CA	GLU A	197	30.535	71.337	-6.048	1.00	59.62
MOTA	1570	CB	GLU A	197	31.992	70.896	-5.916	1.00	74.74
MOTA	1571	CG	GLU A	197	32.595	70.350	-7.211	1.00	82.34
MOTA	1572	CD	GLU A	197	34.093	70.061	-7.108	1.00	86.57
MOTA	1573	OE1	GLU A	197	34.807	70.797	-6.383	1.00	87.43
ATOM	1574	OE2	GLU A	197	34.558	69.100	-7.765	1.00	45.50
ATOM	1575	C	GLU A	197	30.007	71.757	-4.692	1.00	46.60
ATOM	1576	ō	GLU A	197	29.395	70.972	-3.985	1.00	43.56
ATOM	1577	N	ALA A	198	30.216	73.018	-4.352		42.05
MOTA	1578	CA	ALA A	198	29.765	73.538	-3.072	1.00	42.58
MOTA	1579	CB	ALA A	198	30.214	74.968	-2.908	1.00	41.83
MOTA	1580	c	ALA A	198	28.264	73.443	-2.861	1.00	46.61
ATOM	1581	ŏ	ALA A	198	27.805	73.315	-1.728	1.00 1.00	36.04
ATOM	1582	N	ALA A	199	27.501	73.501	-3.946	1.00	32.51
ATOM	1583	CA	ALA A	199	26.052	73.450	-3.852		33.11
ATOM	1584	СВ	ALA A	199	25.430	74.173	-5.019	1.00 1.00	33.23
ATOM	1585	c	ALA A		25.512	72.044	-3.772	1.00	38.62
ATOM	1586	ō	ALA A		24.307	71.837	-3.900	1.00	32.94
ATOM	1587	N	ILE A		26.397	71.075	-3.590		34.13
MOTA	1588	CA	ILE A		25.973	69.687	-3.508	1.00 1.00	30.62
MOTA	1589	СВ	ILE A		26.565	68.846	-4.644		19.56
MOTA		CG2			26.086	67.409	-4.527	1.00	31.15
ATOM	1590	CGI			26.154	69.451	-5.988	1.00	34.14
ATOM	1591	CDI			27.065	69.109	-7.124	1.00	37.9B
MOTA	1592	c.	ILE A			69.073	-2.182	1.00	42.30
MOTA	1593	0	ILE A			68.817	-1.909	1.00	41.21
ATOM	1594	и	LYS A				-1.356	1.00	
ATOM	1595	CA	LYS F				-0.045	1.00	42.08
MOTA	1596	CB	LYS A				0.935	1.00	44.17
ATOM	1597	CG	LYS A				1.203	1.00	47.76 52.10
ATOM	1598	CD					1.218	1.00	52.10
MOTA	1599	CE					1.021	1.00	52.22 52.59
MOTA	1600 1601	NZ	·			73.026	0.955	1.00	39.59
MOTA	1601	C	LYS			66.761	-0.179	1.00	33.33
MOTA	1002	-							

SUBSTITUTE SHEET (RUI F 26)

3 TOM	1603	0	LYS A	201	24.587	66.255	-0.886	1.00	42.27
ATOM		N	THR A	202	26.338	66.052	0.485	1.00	40.47
ATOM	1604		THR A	202	26.329	64.605	0.424	1.00	42.05
MOTA	1605	CA			27.682	64.062	-0.114	1.00	38.96
MOTA	1606	CB	THR A	202		62.727	0.356	1.00	42.95
MOTA	1607	OG1	THR A	202	27.900		0.276	1.00	40.84
MOTA	1608	CG2	THR A	202	28.838	64.970		1.00	42.98
MOTA	1609	C	THR A	202	25.908	64.022	1.781		
MOTA	1610	0	THR A	202	26.553	64.247	2.809	1.00	47.33
ATOM	1611	N	ALA A	203	24.750	63.369	1.785	1.00	41.07
	1612	CA	ALA A	203	24.195	62.776	2.995	1.00	42.49
ATOM	1613	Q	ALA A	203	22.824	62.179	2.713	1.00	36.69
MOTA		Č	ALA A	203	25.110	61.705	3.525	1.00	44.40
MOTA	1614		ALA A	203	25.924	61.159	2.787	1.00	45.26
MOTA	1615	0			24.920	61.348	4.788	1.00	47.23
ATOM	1616	N	ALA A	204		60.316	5.408	1.00	47.81
ATOM	1617	CA	ALA A	204	25.733		6.817	1.00	48.23
ATOM	1618	Q	ALA A	204	25.266	60.089		1.00	48.73
ATOM	1619	С	ALA A	204	25.701	59.000	4.615		51.77
MOTA	1620	0	ALA A	204	26.680	58.252	4.581	1.00	
ATOM	1621	N	ASP A	205	24.574	58.725	3.970	1.00	45.72
MOTA	1622	CA	ASP A	205	24.437	57.501	3.189	1.00	42.78
	1623	CB	ASP A	205	22.984	56.989	3.221	1.00	47.36
ATOM		CG	ASP A	205	22.018	57.827	2.370	1.00	50.09
MOTA	1624		ASP A	205	22.374	58.937	1.922	1.00	54.80
MOTA	1625	OD1		205	20.880	57.362	2.147	1.00	48.85
MOTA	1626	OD2	ASP A			57.644	1.751	1.00	39.10
MOTA	1627	С	ASP A	205	24.915		0.924	1.00	39.36
ATOM	1628	0	ASP A	205	24.628	56.787	1.447	1.00	37.66
ATOM	1629	N	GLY A	206	25.597	58.744			36.43
ATOM	1630	CA	GLY A	206	26.100	58.968	0.097	1.00	
ATOM	1631	С	GLY A	206	25.238	59.669	-0.950	1.00	34.15
MOTA	1632	0	GLY A	206	25.739	60.024	-2.017	1.00	31.94
	1633	N	THR A	207	23.956	59.877	-0.679	1.00	29.49
ATOM		CA	THR A	207	23.109	60.538	-1.657	1.00	25.87
MOTA	1634		THR A	207	21.637	60.442	-1.260	1.00	27.03
MOTA	1635	CB		207	21.345	59.109	-0.824	1.00	29.78
MOTA	1636	OG1	THR A			60.752	-2.447	1.00	28.36
MOTA	1637	CG2	THR A	207	20.766		-1.837	1.00	25.47
ATOM	1638	С	THR A	207	23.509	61.998		1.00	27.07
MOTA	1639	0	THR A	207	23.891	62.663	-0.881		26.75
MOTA	1640	N	LYS A	208	23.481	62.478	-3.073	1.00	
ATOM	1641	CA	LYS A	208	23.828	€3.866	-3.347	1.00	28.57
ATOM	1642	Q	LYS A	208	24.323	64.035	-4.785	1.00	34.36
ATOM	1643	ČG	LYS A	208	25.565	63.216	-5.112	1.00	40.54
	1644	CD	LYS A	208	26.734	63.592	-4.210	1.00	53.48
ATOM		CE	LYS A	208	27.937	62.669	-4.416	1.00	58.70
MOTA	1645		LYS A	208	29.114	63.071	-3.586	1.00	62.46
MOTA	1646	NZ		208	22.540	64.626	-3.124	1.00	27.85
ATOM	1647	C	LYS A			64.231	-3.638	1.00	29.27
ATOM	1648	0	LYS A	208	21.497	65.743	-2.413	1.00	25.63
MOTA	1649	N	LEU A	209	22.620		-2.066	1.00	18.54
ATOM	1650	CA	LEU A	209	21.442	66.518			15.76
ATOM	1651	CB	LEU A	209	21.149	66.348	-0.583	1.00	
ATOM	1652	CG	LEU A	209	21.027	64.949	-0.009	1.00	16.54
ATOM	1653	CD1	LEU A	209	21.176	65.029	1.478	1.00	19.47
ATOM	1654	CD2	LEU A	209	19.704	64.330	-0.393	1.00	14.83
		C	LEU A	209	21.570	67.997	-2.303	1.00	19.56
ATOM	1655	0	LEU A	209	22.647	68.561	-2.184	1.00	20.20
MOTA	1656		SER A	210	20.438	68.624	-2.591	1.00	20.72
MOTA	1657	N			20.359	70.064	-2.782	1.00	26.32
MOTA	1658	CA	SER A	210		70.433	-3.770	1.00	26.58
MOTA	1659	CA	SER A	210	19.243		-5.115	1.00	34.59
ATOM	1660	OG	SER A	210	19.611	70.186		1.00	26.44
ATOM	1661	С	SER A	210	20.000	70.625	-1.407		
MOTA	1662	0	SER A	210	20.466	71.694	-1.023	1.00	29.35
ATOM	1663	N	PHE A	211	19.143	69.900	-0.683	1.00	27.04
ATOM	1664	CA	PHE A	211	18.691	70.296	0.652	1.00	24.33
	1665	CB	PHE A	211	17.306	70.938	0.603	1.00	25.32
ATOM		CG	PHE A	211	17.275	72.243	-0.123	1.00	27.69
ATOM	1666		PHE A	211	16.682	72.341	-1.378	1.00	35.01
MOTA	1667	CD1		211	17.867	73.370	0.426	1.00	31.73
MOTA	1668	CD2	PHE A			73.547	-2.082	1.00	35.58
MOTA	1669	CEI	PHE A	211	16.681		-0.269	1.00	34.04
ATOM	1670	CE2	PHE A	211	17.875	74.586		1.00	36.38
ATOM	1671	CZ	PHE A	211	17.281	74.672	-1.525		
ATOM	1672	С	PHE A	211	18.670	69.116	1.611	1.00	24.35
MOTA	1673	0	PHE A	211	18.062	68.076	1.339	1.00	21.15
ATOM	1674	N	GLU A	212	19.354	69.304	2.732	1.00	25.04
ATOM	1675	CA	GLU A		19.485	68.311	3.777	1.00	26.00
ALON	20.5		_						

									31.89
MOTA	1676	СВ	GLU A	212	20.580	68.763	4.742	1.00	
MOTA	1677	CG	GLU A	212	21.004	67.726	5.770	1.00	52.30
		CD	GLU A	212	21.606	66.472	5.145	1.00	60.61
MOTA	1678		GLU A	212	20.903	65.434	5.092	1.00	59.97
ATOM	1679	OE1			22.786	66.527	4.718	1.00	67.14
ATOM	1680	OE2	GLU A	212		68.100	4.500	1.00	24.80
ATOM	1681	С	GLU A	212	18.158		4.392	1.00	22.54
ATOM	1682	0	GLU A	212	17.243	68.918			26.64
ATOM	1683	N	TRP A	213	18.059	66.997	5.234	1.00	
ATOM	1684	CA	TRP A	213	16.846	66.653	5.963	1.00	28.18
		CB	TRP A	213	17.062	65.393	6.811	1.00	27.08
MOTA	1685		TRP A	213	17.942	65.589	7.993	1.00	31.90
MOTA	1686	CG			17.541	66.016	9.295	1.00	34.81
NOTA	1687	CD2	TRP A	213		66.070	10.093	1.00	39.48
MOTA	1688	CE2	TRP A	213	18.702		9.867	1.00	35.14
MOTA	1689	CE3	TRP A	213	16.310	66.353		1.00	34.70
ATOM	1690	CD1	TRP A	213	19.291	65.406	8.051		38.91
MOTA	1691	NEl	TRP A	213	19.759	65.698	9.306	1.00	
	1692	CZ2	TRP A	213	18.671	66.456	11.436	1.00	39.22
MOTA		CZ3	TRP A	213	16.278	66.736	11.198	1.00	36.20
MOTA	1693			213	17.452	66.780	11.969	1.00	39.04
MOTA	1694	CH2	TRP A			67.780	6.840	1.00	27.32
MOTA	1695	С	TRP A	213	16.312		7.341	1.00	26.78
ATOM	1696	0	TRP A	213	17.074	68.601		1.00	25.99
MOTA	1697	N	HIS A	214	14.994	67.785	7.033		21.26
ATOM	1698	CA	HIS A	214	14.312	68.785	9.843	1:00	
	1699	CB	HIS A	214	14.498	70.170	7.229	1.00	24.00
ATOM		CG	HIS A	214	14.011	70.268	5.815	1.00	26.31
MOTA	1700		HIS A	214	12.986	70.964	5.265	1.00	20.40
ATOM	1701	CD2			14.604	69.575	4.782	1.00	24.70
MOTA	1702	NDl	HIS A	214		69.840	3.657	1.00	19.84
MOTA	1703	CEl	HIS A	214	13.966		3.921	1.00	19.56
ATOM	1704	NE2	HIS A	214	12.983	70.682		1.00	20.75
MOTA	1705	С	HIS A	214	12.824	68.508	7.915		
MOTA	1706	0	HIS A	214	12.295	67.628	7.230	1.00	22.27
	1707	N	GLU A	215	12.153	69.316	8.718	1.00	21.29
MOTA			GLU A	215	10.710	69.258	8.888	1.00	25.72
MOTA	1708	Q		215	10.347	68.937	10.341	1.00	27.88
MOTA	1709	CB	GLU A			69.505	11.344	1.00	44.01
MCTA	1710	CG	GLU A	215	11.325		12.773	1.00	49.99
ATOM	1711	CD	GLU A	215	10.962	69.188	13.040	1.00	48.65
MOTA	1712	0E1	GLU A	215	10.532	68.043			
ATOM	1713	OE2	GLU A	215	11.118	70.089	13.628	1.00	56.84
	1714	С	GLU A	215	10.320	70.676	6.504	1.00	23.84
MOTA		o	GLU A	215	11.116	71.595	8.672	1.00	24.88
MOTA	1715			216	9.136	70.858	7.935	1.00	22.73
MOTA	1716	N	ASP A			72.187	7.492	1.00	22.94
MOTA	1717	CA	ASP A	216	8.732		6.407	1.00	27.97
ATOM	1718	СВ	ASP A	216	7.636	72.112		1.00	27.71
MOTA	1719	CG	ASP A	216	8.082	71.398	5.135		31.88
MOTA	1720	001	ASP A	216	9.304	71.232	4.918	1.00	
MOTA	1721	OD2	ASP A	216	7.185	71.015	4.344	1.00	26.49
		C	ASP A	216	8.230	73.096	8.596	1.00	19.73
MOTA	1722		ASP A	216	7.680	72.652	9.594	1.00	23.16
MOTA	1723	0			8.433	74.384	8.398	1.00	. 16.59
ATOM	1724	N	VAL A	217		75.376	9.312	1.00	18.55
MOTA	1725	CA	VAL A	217	7.945		9.424	1.00	16.49
MOTA	1726	CB	VAL A	217	8.907	76.564			10.45
ATOM	1727	CG1	VAL A	217	8.265	77.687	10.235	1.00	
MOTA	1728	CG2	VAL A	217	10.179	76.123	10.088	1.00	11.70
	1729	c	VAL A	217	6.652	75.819	8.633	1.00	23.10
MOTA			VAL A	217	6.667	76.674	7.729	1.00	21.60
MOTA	1730	0			5.562	75.142	8.990	1.00	25.06
MOTA	1731	N	SER A	218		75.433	8.452	1.00	24.44
MOTA	1732	CA	SER A	218	4.233		6.954	1.00	23.25
MOTA	1733	CB	SER A	218	4.183	75.110			16.35
ATOM	1734	OG	SER A	218	4.109	73.706	6.717	1.00	
MOTA	1735	С	SER A	218	3.190	74.585	9.178	1.00	23.44
		ō	SER A	218	3.541	73.734	9.996	1.00	23.65
MOTA	1736		LEU A	219	1.913	74.865	8.932	1.00	21.85
MOTA	1737	N			0.847	74.064	9.518	1.00	22.52
MOTA	1738	CA	LEU A	219		74.797	9.483	1.00	22.11
MOTA	1739	CB	LEU A	219	-0.493			1.00	18.98
ATOM	1740	CG	LEU A	219	-1.687	73.960	9.955		17.47
ATOM	1741	CD1	LEU A	219	-1.427	73.419	11.330	1.00	
	1742	CD2	LEU A		-2.933	74.804	9.956	1.00	19.86
ATOM		c	LEU A		0.822	72.817	8.633	1.00	24.74
ATOM	1743		LEU A			71.697	9.128	1.00	26.48
MOTA	1744	0				73.030	7.318	1.00	24.79
ATOM	1745	N	ILE A			71.960	6.309	1.00	22.56
MOTA	1746	ÇĀ	ILE A				5.860	1.00	21.63
ATOM	1747	CB	. ILE A			71.393	7.040	1.00	20.63
ATOM	1748	CG2	ILE A	220	-1.335	70.840	7.040	1.00	20.03
22.00									

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			YIE A	220	-1.380	72.443	5.109	1.00	22.42
ATOM	1749	CG1	ILE A	220	-2.505	71.841	4.297	1.00	18.13
MOTA	1750	CD1	ILE A		1.501	72.600	5.099	1.00	18.56
MOTA	1751	С	ILE A	220		73.825	4.970	1.00	17.45
MOTA	1752	0	ILE A	220	1.496	71.793	4.263	1.00	17.74
MOTA	1753	N	THR A	221	2.141	72.295	3.069	1.00	14.91
MOTA	1754	CA	THR A	221	2.802		3.032	1.00	15.95
MOTA	1755	CB	THR A	221	4.287	71.939	4.146	1.00	18.73
MOTA	1756	OG1	THR A	221	4.937	72.557	1.773	1.00	10.41
MOTA	1757	CG2	THR A	221	4.928	72.469		1.00	16.30
ATOM	1758	С	THR A	221	2.066	71.651	1.916	1.00	18.87
MOTA	1759	0	THR A	221	1.711	70.477	1.983	1.00	16.62
ATOM	1760	N	VAL A	222	1.729	72.477	0.933	1.00	17.81
ATOM	1761	CA	VAL A	222	0.992	72.088	-0.261		22.05
ATOM	1762	CB	VAL A	222	-0.332	72.880	-0.310	1.00	
MOTA	1763	CG1	VAL A	222	-1.046	72.671	-1.630	1.00	25.61
ATOM	1764	CG2	VAL A	222	-1.221	72.446	0.854	1.00	24.18
	1765	C	VAL A	222	1.890	72.404	-1.464	1.00	17.84
MOTA	1766	ō	VAL A	222	1.990	73.557	-1.895	1.00	18.42
ATOM		N	LEU A	223	2.525	71.359	-1.995	1.00	14.96
MOTA	1767	CA	LEU A	223	3.495	71.469	-3.080	1.00	15.9 7
MOTA	1768		LEU A	223	4.779	70.761	-2.64.7	1.00	8.17
MOTA	1769	CB		223	5.836	70.407	-3.680	1.00	9.19
ATOM	1770	CG	LEU A	223	6.771	71.557	-3.882	1.00	9.69
ATOM	1771	CD1	LEU A		6.605	69.205	-3.191	1.00	12.71
ATOM	1772	CD2	LEU A	223		70.951	-4.461	1.00	20.09
ATOM	1773	С	LEU A	223	3.14€	59.846	-4.608	1.00	24.25
ATOM	1774	0	LEU A	223	2.623	71.757	-5.476	1.00	23.92
ATOM	1775	N	TYR A	224	3.453	71.737	-6.862	1.00	22.47
MOTA	1776	CA	TYR A	224	3.283		-7.711	1.00	25.33
MOTA	1777	CB	TYR A	224	2.415	72.269	-9.110	1.00	24.10
MOTA	1778	CG	TYR A	224	2.258	71.701		1.00	22.12
ATOM	1779	CD1	TYR A	224	1.592	70.488	-9.311 -10.560	1.00	25.03
ATOM	1780	CE1	TYR A	224	1.534	69.893		1.00	23.73
ATOM	1781	CD2	TYR A	224	2.860	72.311	-10.212		27.76
ATOM	1782	CE2	TYR A	224	2.811	71.720	-11.475	1.00	29.83
MOTA	1783	CZ	TYR A	224	2.146	70.505	-11.643	1.00	
ATOM	1784	OH	TYR A	224	2.112	69.895	-12.884	1.00	31.58
ATOM	1785	С	TYR A	224	4.680	71.314	-7.451	1.00	25.24
MOTA	1786	ō	TYR A	224	5.424	72.301	-7.392	1.00	27.50
MOTA	1787	N	GLN A	225	5.014	70.193	-8.060	1.00	23.63
	1788	CA	GLN A	225	6.327	70.006	-8.639	1.00	25.73
MOTA	1789	Q.	GLN A	225	7.184	69.294	-7.609	1.00	23.37
ATOM		ČG	GLN A	225	8.614	69.292	-7.891	1.00	25.23
ATOM	1790	CD	GLN A	225	9.378	68.781	-6.720	1.00	30.69
MOTA	1791		GLN A	225	10.264	69.461	-6.203	1.00	37.77
MOTA	1792	OE1	GLN A	225	9.042	67.578	-6.278	1.00	29.82
MOTA	1793	NE2	GLN A	225	6.105	69.126	-9.858	1.00	27.45
MOTA	1794	C		225	5.503	68.056	-9.759	1.00	27.59
MOTA	1795	0	GLN A	226	6.601	69.552	-11.007	1.00	27.34
MOTA	1796	N	SER A		6.358	68.779	-12.210	1.00	28.99
MOTA	1797	CA	SER A	226		69.605	-13.152	1.00	28.18
MOTA	1798	CB	SER A	226	5.501	68.829	-14.229	1.00	40.16
ATOM	1799	OG	SER A	226	5.052	68.311	-12.943	1.00	31.56
ATOM	1800	Ç	SER A	226	7.599	69.055	-13.087	1.00	32.05
ATOM	1801	0	SER A	226	8.570		-13.370	1.00	30.89
ATOM	1802	N	ASN A	227	7.571	67.055	-14.133	1.00	29.18
ATOM	1803	CA	ASN A	227	8.667	66.471		1.00	28.72
ATOM	1804	CB	ASN A	227	8.878	67.285	-15.417	1.00	27.74
MOTA	1805	CG	ASN A	227	9.511	66.482	-16.528	1.00	28.75
MOTA	1806	ODl	ASN A	227	9.130	65.341	-16.779		27.94
ATOM	1807	ND2	ASN A	227	10.454	67.089	-17.229	1.00	28.97
MOTA	1808	С	ASN A	227	9.990	66.328	-13.380	1.00	
	1809	ō	ASN A	227	11.052	66.517	-13.960	1.00	30.10
MOTA	1810	N	VAL A		9.929	66.006	-12.091	1.00	29.20
MOTA		CA	VAL A		11.135	65.809	-11.291	1.00	27.27
ATOM	1811	CB	VAL A		11.599	67.058	-10.497	1.00	26.29
MOTA	1812					67.241	-10.649	1.00	23.43
MOTA	1813	CG1	_			68.292	-10.859	1.00	25.97
MOTA	1814	CG2	VAL A			64.826	-10.206	1.00	31.99
ATOM	1815	C	VAL A			64.760	-9.758	1.00	35.97
MOTA	1816	0				64.110	-9.753	1.00	34.06
MOTA	1817	N	GLN A			63.153	-8.658	1.00	33.36
MOTA	1818	CA	GLN A			61.734	-9.176	1.00	37.53
MOTA	1819	CB	GLN A			60.666	-8.148	1.00	42.23
MOTA	1820	CG	GLN A			59.368	-8.833	1.00	55.26
MOTA	1821	CD	GLN A	229	11.20/	27.500			

							0.303	1.00	58.46
ATOM	1822	OE1	GLN A	229	10.110	59.222	-9.392		59.25
ATOM	1823	NE2	GLN A	229	12.155	58.435	-8.857	1.00	
ATOM	1824	С	GLN A	229	12.935	63.474	-7.814	1.00	34.22
ATOM	1825	0	GLN A	229	14.044	63.042	-8.124	1.00	34.78
ATOM	1826	N	ASN A	230	12.733	64.293	-6.784	1.00	34.28
ATOM	1827	CA	ASN A	230	13.827	64.732	-5.917	1.00	32.42
	1828	C8	ASN A	230	14.171	66.199	-6.226	1.00	27.53
ATOM	1829	CG	ASN A	230	12.974	67.136	-6.068	1.00	21.96
MOTA		001	ASN A	230	11.933	66.751	-5.545	1.00	24.46
ATOM	1830			230	13.118	68.361	-6.541	1.00	19.87
ATOM	1831	ND2	ASN A		13.575	64.587	-4.419	1.00	31.95
MOTA	1832	C	ASN A	230		64.808	-3.622	1.00	30.47
ATOM	1833	0	ASN A	230	14.476	64.231	-4.034	1.00	31.28
MOTA	1834	N	LEU A	231	12.356		-2.626	1.00	27.98
ATOM	1835	CA	LEU A	231	12.018	64.092	-2.408	1.00	24.65
ATOM	1836	CB	LEU A	231	10.551	64.431		1.00	21.29
ATOM	1837	CG	LEU A	231	10.254	65.884	-2.135	1.00	24.61
ATOM	1838	CD1	LEU A	231	8.807	65.985	-1.745		23.04
MOTA	1839	CD2	LEU A	231	11.116	66.349	-0.993	1.00	
ATOM	1840	С	LEU A	231	12.276	62.719	-2.040	1.00	30.04
ATOM	1841	o	LEU A	231	12.145	61.706	-2.725	1.00	34.74
	1842	N	GLN A	232	12.615	62.693	-0.754	1.00	30.14
MOTA		CA	GLN A	232	12.834	61.4iS	-0.034	1.00	26.30
MOTA	1843	CB	GLN A	232	14.314	61.087	0.000	1.00	25.18
MOTA	1844		GLN A	232	14.877	60.607	-1.315	1.00	24.42
MOTA	1845	CG			16.251	59.976	-1.163	1.00	28.50
MOTA	1846	CD	GLN A	232		60.543	-0.538	1.00	29.12
MOTA	1847	0E1	GLN A	232	17.149	58.794	-1.736	1.00	27.79
MOTA	1843	NE2	GLN A	232	16.420		1.392	1.00	27.21
MOTA	1849	С	GLN A	232	12.313	61.614	2.015	1.00	29.07
ATOM	1850	0	GLN A	232	12.538	62.656		1.00	25.56
MOTA	1851	N	VAL A	233	11.581	60.618	1.888		23.90
MOTA	1852	CA	VAL A	233	11.047	60.659	3.250	1.00	
MOTA	1853	СВ	VAL A	233	9.588	60.195	3.354	1.00	26.06
MOTA	1854	CG1	VAL A	233	8.862	61.027	4.382	1.00	28.07
ATOM	1855	CG2	VAL A	233	8.911	60.178	2.027	1.00	25.39
	1856	c	VAL A	233	11.779	59.644	4.101	1.00	27.04
MOTA		ō	VAL A	233	12.024	58.519	3.662	1.00	27.08
MOTA	1857	N	GLU A	234	12.090	60.015	5.331	1.00	27.08
MOTA	1858		GLU A	234	12.744	59.089	6.226	1.00	28.63
MOTA	1859	CA		234	13.512	59.848	7.289	1.00	28.65
MOTA	1850	CB	GLU A		14.044	58.977	8.400	1.00	33.81
MOTA	1851	CG	GLU A	234		59.788	9.509	1.00	37.83
MOTA	1862	CD	GLU A	234	14.652	59.870	9.558	1.00	46.49
ATOM	1863	OE1	GLU A	234	15.893	60.356	10.323	1.00	41.82
ATOM	1864	OE2	GLU A	234	13.894		6.881	1.00	32.99
MOTA	1865	C	GLU A	234	11.637	58.292	7.526	1.00	36.86
MOTA	1866	0	GLU A	234	10.761	58.861	6.654	1.00	39.05
MOTA	1867	N	THR A	235	11.619	56.990		1.00	43.64
MOTA	1868	CA	THR A	235	10.603	56.144	7.264		47.64
ATOM	1869	CB	THR A	235	9.789	55.370	6.196	1.00	
ATOM	1870	OG1	THR A	235	10.663	54.518	5.443	1.00	48.96
ATOM	1871	CG2	THR A	235	9.077	56.340	5.245	1.00	49.04
ATOM	1872	С	THR A	235	11.310	55.161	8.186	1.00	45.27
		ō	THR A	235	12.533	55.204	8.330	1.00	46.15
ATOM	1873 1874	N	ALA A	236	10.549	54.266	8.802	1.00	48.85
ATOM		CA	ALA A	236	11.131	53.271	9.697	1.00	51.37
MOTA	1875		ALA A	236	10.035	52.506	10.416	1.00	52.57
ATOM	1876	CB	ALA A	236	12.049	52.307	8.944	1.00	51.92
MOTA	1877	С			12.709	51.464	9.547	1.00	56.47
MOTA	1878	0	ALA A	236		52.402	7.620	1.00	50.60
MOTA	1879	И	ALA A	237	12.044		6.786	1.00	50.28
MOTA	1880	CA	ALA A	237	12.886	51.558	5.720	1.00	45.48
MOTA	1881	CB	ALA A	237	12.044	50.870		1.00	51.53
ATOM	1882	С	ALA A	237	13.952	52.421	6.126		
ATOM	1883	0	ALA A	237	14.591	51.992	5.156	1.00	53.02
ATOM	1884	N	GLY A	238	14.159	53.620	6.672	1.00	49.22
ATOM	1885	CA	GLY A		15.129	54.542	6.108	1.00	47.88
ATOM	1886	c.	GLY A		14.493	55.410	5.029	1.00	45.36
	1887	ō	GLY A		13.275	55.377	4.837	1.00	45.44
ATOM		N	TYR A		15.305	56.193	4.325	1.00	43.94
MOTA	1888		TYR A		14.795	57.077	3.282	1.00	42.31
MOTA	1889	CA	TYR A		15.860	58.079	2.862	1.00	34.38
MOTA	1890	CB			16.054	59.203	3.846	1.00	31.86
MOTA	1891	CG	TYR A			59.064	4.943	1.00	29.03
MOTA	1892	CD1				60.129	5.825	1.00	30.21
MOTA	1893	CE1				60.427	3.659	1.00	31.58
MOTA	1894	CD2	TYR A	239	15.416	00.42/			

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		CES	TYR A	239	15.618	61.491	4.536	1.00	27.77
MOTA	1895	CE2	TYR A	239	16.467	61.337	5.609	1.00	28.27
ATOM	1896 1897	он	TYR A	239	16.670	62.396	6.459	1.00	30.28 44.26
ATOM ATOM	1898	С	TYR A	239	14.282	56.345	2.053	1.00 1.00	50.07
ATOM	1899	0	TYR A	239	14.958	55.464	1.519 1.605	1.00	42.95
ATOM	1900	N	GLN A	240	13.089	56.730	0.434	1.00	37.56
ATOM	1901	CA	GLN A	240	12.457	56.135 55.338	0.829	1.00	37.90
ATOM	1902	СВ	GLN A	240	11.227 11.492	54.283	1.867	1.00	39.00
ATOM	1903	CG	GLN A	240 240	10.259	53.503	2.178	1.00	41.54
MOTA	1904	OE1	GLN A GLN A	240	9.361	53.975	2.876	1.00	42.44
ATOM	1905 1906	NE2	GLN A	240	10.192	52.303	1.655	1.00	43.71
ATOM	1907	C	GLN A	240	12.036	57.238	-0.493	1.00	35.12 37.16
MOTA MOTA	1908	ō	GLN A	240	11.637	58.310	-0.049	1.00	37.65
ATOM	1909	N	ASP A	241	12.106	56.963	-1.786	1.00 1.00	33.97
ATOM	1910	CA	ASP A	241	11.757	57.937	-2.807 -4.157	1.00	36.71
MOTA	1911	CB	ASP A	241	12.294	57.477 57.725	-4.305	1.00	40.53
MOTA	1912	CG	ASP A	241	13.768	56.767	-4.626	1.00	48.07
MOTA	1913	OD1	ASP A	241 241	14.501 14.193	58.883	-4.102	1.00	43.60
ATOM	1914	OD2	ASP A ASP A	241	10.273	58.187	-2.937	1.00	31.87
ATOM	1915	с 0	ASP A	241	9.473	57.290	-2.715	1.00	33.89
MOTA	1916 1917	N	ILE A	242	9.910	59.420	-3.270	1.00	29.50 29.59
NOTA MOTA	1918	CA	ILE A	242	8.516	59.776	-3.491	1.00	25.32
ATOM	1919	CB	ILE A	242	8.122	61.110	-2.793	1.00 1.00	21.57
ATOM	1920	CG2	ILE A	242	6.718	61.540	-3.205 -1.275	1.00	22.34
ATOM	1921	CGl	ILE A	242	8.142	60.940 62.219	-0.529	1.00	19.47
ATOM	1922	CD1	ILE A	242	7.931 8.314	59.899	-5.002	1.00	32.14
ATOM	1923	C	ILE A ILE-A	242 242	9.039	60.631	-5.680	1.00	34.25
MOTA	1924	o N	GLU A	243	7.364	59.139	-5.528	1.00	32.42
MOTA	1925 1926	CA	GLU A	243	7.051	59.161	-6.950	1.00	35.87
ATOM	1927	CB	GLU A	243	5.993	58.103	-7.257	1.00	45.32 58.52
MOTA MOTA	1928	CG	GLU A	243	4.620	58.422	-6.675	1.00 1.00	67.74
ATOM	1929	CD	GLU A	243	3.584	57.359	-6.970 -6.126	1.00	72.36
ATOM	1930	OE1	GLU A	243	2.579	57.157 56.730	-8.048	1.00	73.67
MOTA	1931	OE2	GLU A	243	3.669 6.494		-7.361	1.00	34.26
MOTA	1932	C	GLU A	243 243	5.794	61.170	-€.587	1.00	34.70
MOTA	1933	0	GLU A ALA A	243	6.796	60.940	-8.582	1.00	37.14
ATOM	1934	N CA	ALA A	244	6.299	62.211	-9.106	1.00	36.70
ATOM	1935 1936	CB	ALA A	244	7.187	62.704	-10.237	1.00	30.95
ATOM ATOM	1937	c	ALA A	244	4.870	62.045	-9.607	1.00	38.29 39.49
ATOM	1938	Ō	ALA A	244	4.401	60.919	-9.809	1.00 1.00	38.94
ATOM	1939	N	ASP A	245	4.184	63.168	-9.810 -10.302	1.00	36.20
ATOM	1940	CA	ASP A	245	2.809	63.171 62.683	-9.217	1.00	35.69
ATOM	1941	CB	ASP A	245	1.849 0.436	62.479	-9.730	1.00	39.12
MOTA	1942	CG	ASP A	245 245	-0.090	63.350	-10.446	1.00	38.32
MOTA	1943	001	ASP A ASP A	245	-0.162	61.440	-9.406	1.00	44.34
ATOM	1944	0D2 C	ASP A	245	2.423	64.579	-10.720	1.00	36.64
ATOM	1945 1946	0	ASP A		1.881	65.338	-9.920	1.00	40.34
MOTA MOTA	1947	N	ASP A		2.624	64.906	-11.989	1.00	36.70 42.59
MOTA	1948	CA	ASP A	246	2.288	66.242	-12.464	1.00 1.00	52.74
ATOM	1949	C8	ASP A		2.956	66.546	-13.815 -14.899	1.00	62.16
MOTA	1950	CG	ASP A		2.651	65.508 65.398	-15.834	1.00	67.79
ATOM	1951	001				64.822	-14.836	1.00	61.80
MOTA	1952	OD2		_		66.649	-12.495	1.00	39.27
MOTA	1953	C	ASP A			67.699	-13.042	1.00	39.09
ATOM	1954	0	THR A			65.849	-11.897	1.00	37.20
MOTA	1955 1956	N CA	THR A			66.182	-11.876	1.00	37.88
ATOM	1957	СВ	THR A			65.074	-12.545	1.00	41.31
ATOM ATOM	1958	OG1			-2.370	63.901	-11.719	1.00	44.54 42.77
ATOM	1959	CG2	_			64.688	-13.903	1.00 1.00	37.12
ATOM	1960	C	THR J			66.436	-10.452 -10.263	1.00	35.84
ATOM	1961	0	THR A		_	66.933	-10.263	1.00	33.34
MOTA	1962	N	GLY A			66.136 66.320	-8.076	1.00	29.08
MOTA	1963	CA	GLY A			67.236	-7.251	1.00	26.86
MOTA	1964	c	GLY A			67.693	-7.709	1.00	29.61
MOTA	1965	о 0	TYR				-6.052	1.00	24.24
MOTA	1966	CA			_		-5.128	1.00	22.26
ATOM	1967	-							

									17.04
3 TOM	1968	CB	TYR A	249	-1.319	69.512	-4.571	1.00	
ATOM		CG	TYR A	249	-1.337	70.775	-5.395	1.00	19.97
ATOM	1969		TYR A	249	-2.159	70.896	-6.505	1.00	21.32
ATOM	1970	CD1		249	-2.194	72.078	-7.247	1.00	22.14
ATOM	1971	CE1	TYR A			71.866	-5.045	1.00	17.14
ATON	1972	CD2	TYR A	249	-0.545		-5.777	1.00	18.05
MOTA	1973	CE2	TYR A	249	-0.575	73.041		1.00	18.13
ATOM	1974	cz	TYR A	249	-1.398	73.140	-6.876		23.74
	1975	он	TYR A	249	-1.412	74.302	-7.612	1.00	
ATOM		c.	TYR A	249	0.037	67.520	-3.982	1.00	24.44
MOTA	1976				-0.766	66.820	-3.363	1.00	25.35
MOTA	1977	0	TYR A	249		67.505	-3.745	1.00	21.09
ATOM	1978	N	LEU A	250	1.344		-2.664	1.00	19.72
ATON	1979	CA	LEU A	250	1.908	66.720			11.66
	1980	CB	LEU A	250	3.397	66.484	-2.914	1.00	
ATOM	1981	CG	LEU A	250	4.092	65.533	-1.946	1.00	13.51
MOTA			LEU A	250	3.460	64.158	-1.998	1.00	9.39
MOTA	1982	CD1			5.536	65.450	-2.310	1.00	16.26
ATOM	1983	CD2	LEU A	250		67.475	-1.349	1.00	24.50
MOTA	1984	С	LEU A	250	1.683			1.00	23.74
ATOM	1985	0	LEU A	250	2.160	68.606	-1.176		25.00
	1986	N	ILE A	251	0.953	66.847	-0.432	1.00	
ATOM			ILE A	251	0.651	67.447	0.866	1.00	23.54
ATOM	1987	CA			-0.876	67.411	1.138	1.00	21.64
MOTA	1988	CB	ILE A	251		63.522	2.121	1.00	20.73
MOTA	1989	CG2	ILE A	251	-1.257		-0.169	1.00	18.11
ATOM	1990	CG1	ILE A	251	-1.670	67.562		1.00	15.82
	1991	CD1	ILE A	251	-1.594	68.929	-0.792		
ATOM		c	ILE A	251	1.376	65.775	2.071	1.00	25.96
ATOM	1992		ILE A	251	1.478	65.545	2.148	1.00	22.81
MOTA	1993	О			1.919	67.590	2.979	1.00	27.93
MOTA	1994	N	ASN A	252		67.097	4.190	1.00	23.28
MOTA	1995	CA	ASN A	252	2.583		3.969	1.00	19.24
ATOM	1996	CB	ASN A	252	4.067	65.731			15.95
	1997	CG	ASN A	252	4.949	67.922	3.669	1.00	
MOTA		OD1	ASN A	252	5.210	68.225	2.521	1.00	27.71
MOTA	1998			252	5.482	68.544	4.698	1.00	12.20
MOTA	1999	ND2	ASN A			68.107	5.321	1.00	26.77
MOTA	2000	С	ASN A	252	2.417		5.079	1.00	26.57
ATOM	2001	0	ASN A	252	2.046	69.258		1.00	26.39
ATOM	2002	N	CYS A	253	2.621	67.649	6.555		
	2003	CA	CYS A	253	2.484	68.488	7.744	1.00	23.80
MOTA			CYS A	253	2.069	67.638	8.950	1.00	26.15
MOTA	2004	СВ		253	0.326	67.176	9.038	1.00	32.10
ATOM	2005	SG	CYS A			69.222	8.107	1.00	20.68
ATOM	2006	С	CYS A	253	3.758		7.810	1.00	23.52
ATOM	2007	0	CYS A	253	4.853	68.766 .			21.10
	2008	N	GLY A	254	3.601	70.371	8.740	1.00	
MOTA		CA	GLY A	254	4.740	71.143	9.183	1.00	21.44
ATOM	2009		GLY A	254	4.870	70.886	10.669	1.00	19.86
MOTA	2010	С			4.062	70.173	11.245	1.00	17.78
ATOM	2011	0	GLY A	254		71.492	11.325	1.00	21.03
ATOM	2012	N	SER A	255	5.839		12.737	1.00	20.86
ATOM	2013	CA	SER A	255	5.996	71.237			16.65
	2014	CB	SER A	255	7.348	71.742	13.225	1.00	
ATOM		og	SER A	255	7.529	73.096	12.870	1.00	24.84
MOTA	2015			255	4.862	71.800	13.592	1.00	25.80
MOTA	2016	С	SER A			71.316	14.702	1.00	32.81
ATOM	2017	0	SER A	255	4.635	72.800	13.103	1.00	23.31
ATOM	2018	N	TYR A	256	4.132			1.00	22.05
ATOM	2019	CA	TYR A	256	3.048	73.337	13.916		
	2020	CB	TYR A	256	2.453	74.597	13.320	1.00	18.59
ATOM		CG	TYR A	256	1.600	75.359	14.313	1.00	18.81
MOTA	2021			256	2.181	76.147	15.301	1.00	14.81
MOTA	2022	CD1	TYR A			76.878	16.198	1.00	18.34
MOTA	2023	CE1	TYR A	256	1.399		14.253	1.00	22.82
MOTA	2024	CD2	TYR A	256	0.213	75.302	15.151	1.00	22.41
MOTA	2025	CE2	TYR A	256	-0.586	76.029			22.48
	2026	cz	TYR A	256	0.015	76.812	16.122	1.00	
MOTA		он	TYR A	256	-0.777	77.531	16.994	1.00	27.35
MOTA	2027		TYR A	_	1.946	72.303	14.160	1.00	25.24
MOTA	2028	С				72.250	15.249	1.00	30.73
MOTA	2029	0	TYR A		1.377		13.152	1.00	25.21
ATOM	2030	N	MET A		1.645	71.490		1.00	25.59
ATOM	2031	CA	MET A	257	0.633	70.443	13.281		
	2032	CB	MET A		0.422	69.749	11.930	1.00	23.11
MOTA			MET A			68.646	11.889	1.00	23.77
ATOM	2033	CG				69.226	12.196	1.00	29.13
ATOM	2034	SD	MET A			69.464	10.571	1.00	21.14
MOTA	2035	CE	MET A				14.338	1.00	29.65
ATOM	2036	С	MET A			69.444		1.00	33.68
MOTA	2037	0	MET A	257		68.996	15.182		
	2038	N	ALA A		2.410	69.139	14.324	1.00	30.20
MOTA		CA	ALA A			68.207	15.294	1.00	29.21
MOTA	2039		ALA A			67.918	14.962	1.00	26.53
MOTA	2040	CB	ALM P	. 230					

								3 00	29.82
ATOM	2041	С	ALA A	258	2.843	68.740	16.721	1.00	30.07
MOTA	2042	0	ALA A	258	2.436	67.,999	17.635	1.00	29.81
ATOM	2043	N	HIS A	259	3.130	70.023	16.912	1.00	30.03
ATOM	2044	CA	HIS A	259	3.023	70.635	18.231	1.00	
ATOM	2045	СВ	HIS A	259	3.560	72.061	18.197	1.00	29.44
ATOM	2046	CG	HIS A	259	3.279	72.846	19.441	1.00	36.67
ATOM	2047	CD2	HIS A	259	3.973	72.971	20.600	1.00	35.37
ATOM	2048	ND1	HIS A	259	2.174	73.662	19.572	1.00	39.99
ATOM	2049	CEL	HIS A	259	2.201	74.255	20.750	1.00	40.19
MOTA	2050	NE2	HIS A	259	3.284	73.854	21.397	1.00	33.91
ATOM	2051	C	HIS A	259	1.571	70.645	18.703	1.00	32.65
	2052	ō	HIS A	259	1.295	70.499	19.884	1.00	37.28
MOTA	2053	N	LEU A	260	0.650	70.862	17.778	1.00	33.08
MOTA	2054	CA	LEU A	260	-0.770	70.900	18.092	1.00	31.90
ATOM	2055	CB	LEU A	260	-1.543	71.402	16.880	1.00	30.79
ATOM	2056	CG	LEU A	260	-2.224	72.751	16.957	1.00	33.95
MOTA		CD1	LEU A	260	-1.342	73.763	17.664	1.00	35.15
MOTA	2057		LEU A	260	-2.549	73.184	15.536	1.00	39.19
MOTA	2058	CD2	LEU A	260	-1.326	69.536	18.470	1.00	33.38
MOTA	2059	C		260	-2.082	69.411	19.420	1.00	35.86
MOTA	2060	0	LEU A		-0.988	68.526	17.684	1.00	32.53
MOTA	2061	N	THR A	261		67.184	17.905	1.00	33.81
MOTA	2062	CA	THR A	261	-1.480 -1.571	66.443	16.580	1.00	35.83
ATOM	2063	CB	THR A	261		66.392	15.977	1.00	33.48
ATCM	2064	OG1	THR A	261	-0.270		15.647	1.00	37.64
ATOM	3062	CG2	THR A	261	-2.537	67.155	18.840	1.00	39.46
MOTA	2066	С	THR A	261	-0.590	66.389		1.00	38.94
ATOM	2067	0	THR A	261	-0.651	65.153	18.870	1.00	44.19
ATOM	2068	N	ASN A	262	0.267	67.094	19.572	1.00	49.58
MOTA	2069	CA	ASN A	262	1.191	66.456	20.506		
ATOM	2070	CB	ASN A	262	0.445	65.952	21.756	1.00	59.13
ATOM	2071	CG	ASN A	262	1.353	65.841	22.981	1.00	66.86
ATOM	2072	OD1	ASN A	262	1.367	66.737	23.833	1.00	72.04
ATOM	2073	ND2	ASN A	262	2.105	64.743	23.081	1.00	67.84
MOTA	2074	С	ASN A	262	1.941	65.307	19.811	1.00	46.90
ATOM	2075	Ō	ASN A	262	2.228	64.274	20.415	1.00	49.43
ATOM	2076	N	ASN A	263	2.208	65.492	18.522	1.00	41.44
ATOM	2077	CA	ASN A	263	2.929	64.534	17.698	1.00	37.52
	2078	Cl3	ASN A	263	4.237	64.119	18.347	1.00	41.11
ATOM	2078	CG	ASN A		5.415	64.740	17.670	1.00	47.69
MOTA		001	ASN A	263	5.928	65.764	18.109	1.00	48.68
MOTA	2080	ND2	ASN A	263	5.824	64.155	16.550	1.00	54.33
MOTA	2081		ASN A	263	2.201	63.322	17.172	1.00	35.18
ATOM	2082	C	ASN A	263	2.832	62.388	16.679	1.00	34.27
ATOM	2083	0		264	0.877	63.344	17.250	1.00	36.95
MOTA	2084	N	TYR A	264	0.063	62.252	16.723	1.00	37.39
MOTA	2085	CA	TYR A		-1.393	62.413	17.189	1.00	33.82
TOM	2086	CB	TYR A	264	-2.344	61.342	16.713	1.00	33.63
ATOM	2087	CG	TYR A	264		60.113	17.362	1.00	32.49
MOTA	2088	CD1	TYR A	264	-2.446	59.tS1	16.935	1.00	33.06
MOTA	2089	CE1	TYR A	264	-3.375		15.627	1.00	37.61
ATOM	2090	CD2	TYR A	264	-3.180	61.579 60.636	15.195	1.00	37.45
MOTA	2091	CE2	TYR A	264	-4.105		15.845	1.00	35.62
MOTA	2092	CZ	TYR A	264	-4.204	59.429	15.403	1.00	38.87
MOTA	2093	OH ·	TYR A	264	-5.169	58.546	15.186	1.00	37.01
ATOM	2094	С	TYR A	264	0.218	62.311		1.00	37.37
ATOM	2095	0	TYR A	264	0.169	61.287	14.499 14.666	1.00	36.23
MOTA	2096	N	TYR A	265	0.390	63.528			33.20
ATOM	2097	CA	TYR A	265	0.642	63.768	13.244	1.00	26.57
ATOM	2098	CB	TYR A	265	-0.351	64.750	12.640	1.00	
ATOM	2099	CG	TYR A	265	-1.642	64.115	12.239	1.00	31.72
ATOM	2100	CD1	TYR A	265	-2.630	64.861	11.610	1.00	33.04
ATOM	2101	CE1	TYR A		-3.854	64.298	11.286	1.00	30.94
MOTA	2102	CD2	TYR A		-1.909	62.775	12.527	1.00	32.98
MOTA	2102	CE2	TYR A		-3.141	62.201	12.207	1.00	31.76
	2103	CZ	TYR A		-4.102	62.976	11.591	1.00	30.37
MOTA	2104	OH	TYR A		-5.333	62.452	11.312	1.00	38.15
ATOM		C	TYR A		2.028	64.390	13.227	1.00	34.58
ATOM	2106	0	TYR A		2.187	65.586	13.466	1.00	35.29
ATOM	2107		LYS A		3.036	63.553	13.022	1.00	34.31
ATOM	2108	N	LYS A		4.422	63.990	13.002	1.00	33.62
MOTA	2109	CA	LYS A		5.328	62.772	13.039	1.00	39.20
ATOM	2110	CB			6.739	63.066	13.491	1.00	56.22
MOTA	2111	CG	LYS A		7.549	61.773	13.584	1.00	67.11
MOTA	2112	CD	LYS A		6.797	60.697	14.372	1.00	74.71
ATOM	2113	CE	LYS A	200	0.17/	50.55,			

ATOM 2116 0							61 147	15.748	1.00	80.37
ATOM 2119 C	ATOM	2114	NZ	LYS A	266	6.402	61.147			
ATOM 2119	ATOM									
ATOM 1119	MOTA									
ATOM 1119 CB ALA A 267 6.724 67.809 11.173 1.00 22.67 ATOM 12120 C ALA A 267 7.079 65.599 10.072 1.102 28.10 ATOM 12121 O ALA A 267 8.074 65.243 10.695 1.00 1.01 ATOM 12121 O PRO A 268 6.822 65.155 8.823 1.00 10.72 ATOM 12123 CD PRO A 268 5.648 65.466 7.999 1.00 29.53 ATOM 12124 O PRO A 268 7.732 64.251 8.103 1.00 29.53 ATOM 12125 CB PRO A 268 7.033 64.081 6.742 1.00 29.53 ATOM 12126 CG PRO A 268 9.131 64.251 7.055 1.00 29.53 ATOM 12127 C PRO A 268 9.131 64.251 7.055 1.00 27.57 ATOM 12128 O PRO A 268 9.131 64.251 7.555 1.00 21.71 ATOM 12129 B ILLE A 269 9.131 64.805 7.959 1.00 21.73 ATOM 12129 B ILLE A 269 11.549 64.374 7.939 1.00 21.73 ATOM 12131 CG LILE A 269 11.791 63.768 8.155 1.00 21.73 ATOM 12132 CG2 LILE A 269 11.791 63.768 8.155 1.00 21.79 ATOM 12134 CD1 LILE A 269 12.717 63.801 10.286 1.00 21.75 ATOM 12137 N HIS A 270 12.716 65.311 10.645 1.00 21.75 ATOM 12136 CG2 LILE A 269 11.791 63.768 8.155 1.00 21.79 ATOM 12137 N HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12136 CG2 LILE A 269 11.791 63.768 8.155 1.00 16.90 ATOM 12137 N HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12136 CG2 LILE A 269 11.783 64.052 6.470 1.00 21.75 ATOM 12137 N HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12136 C LILE A 269 11.784 6.052 6.470 1.00 21.75 ATOM 12137 N HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12136 C HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12137 N HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12138 CA HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12139 CB HIS A 270 12.195 65.043 6.052 6.470 1.00 21.75 ATOM 12140 CG HIS A 270 11.610 66.580 4.280 1.00 20.88 ATOM 12150 CG HIS A 270 12.195 65.043 6.052 6.470 1.00 20.75 ATOM 12160 CG HIS A 270 11.608 66.050 6.470 1.00 20.89 ATOM 12161 CG HIS A 270 11.608 66.050 6.050 1.00 2.058 ATOM 12160 CG HIS A 270 11.608 66.050 1.700 1.700 20.88 ATOM 12160 CG HIS A 270 11.608 66.050 1.700 1.700 20.88 ATOM 12161 CG HIS A 270 11.608 66.050 1.700 1.700 20.88 ATOM 12160 CG HIS A 270 11.608 66.050 1.700 1.00 20.88 ATOM 12161 CG HIS A	ATOM	2117								
ATOM 2121 O ALA A 267 7.079 65.599 10.072 1.00 28.13 ATOM 2121 O ALA A 267 7.079 65.599 10.072 1.00 28.13 ATOM 2123 C PRO A 268 6.822 65.155 8.823 1.00 10.02 ATOM 2124 O PRO A 268 5.648 67.722 64.251 8.103 1.00 22.37 ATOM 2125 C B PRO A 268 7.041 64.251 8.103 1.00 28.12 ATOM 2126 C PRO A 268 7.041 64.251 8.103 1.00 28.12 ATOM 2127 C PRO A 268 7.041 64.251 8.103 1.00 28.12 ATOM 2126 C B PRO A 268 7.041 64.251 8.103 1.00 25.50 ATOM 2127 C PRO A 268 9.133 66.805 7.055 1.00 25.50 ATOM 2128 O PRO A 268 9.133 66.805 7.055 1.00 25.50 ATOM 2129 N ILEA 269 9.133 65.974 7.555 1.00 27.73 ATOM 2120 N ILEA 269 10.53 65.974 7.555 1.00 27.73 ATOM 2131 C B ILEA 269 11.549 64.361 7.555 1.00 27.73 ATOM 2131 C B ILEA 269 11.549 64.361 7.555 1.00 27.74 ATOM 2132 C ILEA 269 11.788 64.363 7.769 1.00 22.73 ATOM 2132 C C ILEA 269 11.788 64.363 7.769 1.00 23.68 ATOM 2132 C C ILEA 269 11.788 64.052 6.470 1.00 27.36 ATOM 2133 C ILEA 269 11.788 64.052 6.470 1.00 23.31 ATOM 2135 C ILEA 269 11.788 64.052 6.470 1.00 23.31 ATOM 2136 C ILEA 269 11.788 64.052 6.470 1.00 23.31 ATOM 2137 N HIS A 270 12.140 64.081 10.286 1.00 23.31 ATOM 2139 C B HIS A 270 12.140 64.081 10.286 1.00 23.31 ATOM 2139 C B HIS A 270 12.140 64.080 3.696 1.00 23.73 ATOM 2139 C B HIS A 270 12.140 64.080 3.696 1.00 23.73 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 21.75 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 21.75 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 21.75 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 21.75 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 22.73 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 22.73 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 22.73 ATOM 2139 C B HIS A 270 10.141 65.146 3.480 1.00 22.73 ATOM 2139 C B HIS A 270 12.140 64.080 3.480 1.00 22.73 ATOM 2140 C B HIS A 270 10.613 66.507 3.480 1.00 22.73 ATOM 2150 C B HIS A 270 11.616 65.146 3.480 1.00 22.73 ATOM 2151 C B HIS A 270 11.616 65.146 3.480 1.00 22.73 ATOM 2152 C B HIS A 270 11.616 65.146 6.007 3.480 1.00 22.73 ATOM 2140 C B HIS A 270 11.400 66.000 3.480 1.	ATOM	2118	CA	ALA A						
ALDM 1121	ATOM	2119	CB	ALA A	267	6.724				
ATOM 21212 N PRO A 268 6.822 65.155 8.223 1.00 31.73 ATOM 21214 O PRO A 268 7.732 651.555 8.223 1.00 31.00 ATOM 2124 O PRO A 268 7.732 64.251 8.100 1.00 29.53 ATOM 2125 CB PRO A 268 7.732 64.251 8.100 1.00 29.53 ATOM 2126 CG PRO A 268 7.613 64.261 8.100 1.00 25.12 ATOM 2127 C PRO A 268 9.213 66.574 7.755 1.00 21.75 ATOM 2128 O PRO A 268 9.213 66.574 7.555 1.00 21.75 ATOM 2128 O PRO A 268 9.213 66.574 7.755 1.00 21.75 ATOM 2128 O PRO A 268 9.213 66.574 7.755 1.00 21.75 ATOM 2129 N TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2110 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2111 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2113 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2113 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2113 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2113 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2113 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2113 CB TILE A 268 11.549 64.274 7.939 1.00 21.70 ATOM 2113 CB TILE A 268 11.784 64.052 6.5043 10.265 10.0 25.36 ATOM 2123 CB TILE A 268 11.784 64.052 6.5043 10.265 10.00 25.36 ATOM 2123 CB TILE A 268 11.784 64.052 6.6470 1.00 21.77 ATOM 2123 CB TILE A 269 11.784 64.052 6.6470 1.00 21.77 ATOM 2124 CD TILE A 269 11.784 64.052 6.6470 1.00 21.77 ATOM 2124 CD TILE A 269 11.784 64.052 6.6470 1.00 21.77 ATOM 2129 CB HIS A 270 12.165 65.043 5.666 1.00 22.73 ATOM 2124 CD TILE A 269 11.784 64.052 65.043 5.666 1.00 22.73 ATOM 2124 CD TILE A 269 11.784 64.052 65.043 5.666 1.00 22.73 ATOM 2124 CD TILE A 269 11.786 64.058 4.250 1.00 20.47 ATOM 2124 CD TILE A 269 11.786 65.043 5.666 1.00 22.73 ATOM 2124 CD TILE A 269 11.786 64.058 64.058 64.050 1.00 22.73 ATOM 2124 CD TILE A 269 11.786 66.057 3.758 1.00 20.47 ATOM 2124 CD TILE A 269 11.786 66.057 3.758 1.00 20.47 ATOM 2124 CD TILE A 269 11.786 66.057 3.758 1.00 20.47 ATOM 2124 CD TILE A 269 11.786 66.057 3.758 1.00 20.47 ATOM 2124 CD TILE A 269 11.786 66.057 3.758 1.00 20.47 ATOM 2124 CD TILE A 269 11.786 66.057 3.758 1.00 20.47 ATOM 2124 CD TILE A 270 10.487 1.00 20.47 ATOM	ATOM	2120	С	ALA A	267	7.079	65. 599			
ATOM 2122 N PRO A 268 5.682 65.155 F.823 1.00 30.004 ATOM 2124 Q PRO A 268 5.648 55.465 7.889 1.00 22.153 ATOM 2125 CB PRO A 268 7.041 64.081 6.102 1.00 25.57 ATOM 2126 CG PRO A 268 7.041 64.081 6.102 1.00 25.57 ATOM 2127 C PRO A 268 9.103 64.081 7.035 1.00 25.57 ATOM 2127 C PRO A 268 9.103 64.081 7.035 1.00 27.55 ATOM 2128 O PRO A 268 9.103 65.375 7.044 1.00 25.50 ATOM 2128 O PRO A 268 9.103 65.375 7.054 1.00 27.55 ATOM 2128 O PRO A 268 9.103 65.374 7.555 1.00 31.71 ATOM 2128 O PRO A 268 9.103 65.374 7.555 1.00 31.71 ATOM 2128 O PRO A 268 9.103 65.374 7.555 1.00 31.71 ATOM 2128 O PRO A 268 9.103 65.374 7.555 1.00 27.55 ATOM 2128 O PRO A 268 9.103 65.374 7.555 1.00 27.55 ATOM 2128 O PRO A 268 9.103 65.374 7.555 1.00 27.55 ATOM 2128 O PRO A 268 9.103 65.374 7.555 1.00 27.55 ATOM 2129 C Q ILE A 269 11.534 61.884 8.156 1.00 26.79 ATOM 2129 C Q ILE A 269 12.527 63.535 8.799 1.00 23.68 ATOM 2123 C G ILE A 269 12.771 63.881 10.286 1.00 12.36 ATOM 2123 C G ILE A 269 12.771 63.881 10.286 1.00 12.36 ATOM 2123 C G ILE A 269 11.534 64.052 6.470 1.00 25.36 ATOM 2123 C G ILE A 269 11.534 64.052 6.470 1.00 25.36 ATOM 2126 O ILE A 269 11.534 62.932 6.025 1.00 23.31 ATOM 2127 N HIS A 270 12.420 64.002 6.430 1.00 22.73 ATOM 2128 C MIS A 270 12.420 64.002 6.490 1.00 22.73 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 1.00 22.331 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 1.00 22.331 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 1.00 22.331 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 1.00 22.331 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 1.00 22.331 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 1.00 22.331 ATOM 2129 C G ILE A 269 11.544 62.932 6.025 1.00 22.331 ATOM 2129 C G ILE A 269 11.544 62.932 6.490 1.00 22.73 ATOM 2129 C G ILE A 269 11.544 62.932 6.490 1.00 22.75 ATOM 2129 C G ILE A 269 11.544 62.932 6.490 1.00 22.75 ATOM 2124 ND ILE A 269 11.544 62.932 6.490 1.00 22.75 ATOM 2125 C G AGA A 271 11.561 65.146 63.346 1.00 23.93 ATOM 2127 C G AGA A 271 13.935 65.797 2.003 1.00 22.93 ATOM		2121	0	ALA A	267	8.074	65.243			
ATOM 2124 O PRO A 268 5.648 65.466 7.389 1.00 29.35 ATOM 2124 O PRO A 268 7.732 64.251 8.103 1.00 29.35 ATOM 2125 CB PRO A 268 7.733 64.081 6.742 1.00 29.57 ATOM 2126 CG PRO A 268 9.5615 64.286 7.033 61.00 27.55 ATOM 2127 C PRO A 268 9.281 65.574 64.286 7.033 61.00 27.55 ATOM 2128 O PRO A 268 9.281 65.574 64.286 7.033 61.00 27.55 ATOM 2129 N ILE A 269 10.153 65.374 7.939 1.00 21.75 ATOM 2129 N ILE A 269 11.583 63.374 7.939 1.00 21.70 ATOM 2110 Q ILE A 269 11.583 63.374 7.939 1.00 21.70 ATOM 2111 CB ILE A 269 11.583 63.374 7.939 1.00 21.68 ATOM 2113 CB ILE A 269 11.583 64.085 8.799 1.00 21.68 ATOM 2113 CB ILE A 269 11.584 66.051 10.065 ATOM 2113 CB ILE A 269 11.584 64.082 61.556 1.00 25.36 ATOM 2136 CB ILE A 269 11.584 64.082 61.474 7.00 21.75 ATOM 2137 N HIS A 270 12.140 65.043 5.666 1.00 21.75 ATOM 2138 CB ILE A 269 11.584 64.082 61.474 7.00 21.75 ATOM 2139 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2138 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2138 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2139 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2139 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2139 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2139 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2139 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2140 CB ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2141 CD ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2144 CD ILE A 269 11.784 62.932 6.025 1.00 21.75 ATOM 2144 CD ILE A 270 12.196 65.043 7.696 1.00 22.73 ATOM 2144 CD ILE A 270 12.196 65.043 7.696 1.00 22.73 ATOM 2144 CD ILE A 270 12.196 65.043 7.696 1.00 22.73 ATOM 2144 CD ILE A 270 12.196 65.043 7.696 1.00 22.73 ATOM 2144 CD ILE A 270 12.196 66.057 3.758 1.00 10.00 21.55 ATOM 2145 CB ILE A 270 12.196 66.057 3.758 1.00 21.00 21.55 ATOM 2145 CB ILE A 270 12.196 65.043 1.00 22.93 ATOM 2146 CB ILE A 270 12.196 66.057 3.758 1.00 22.73 ATOM 2147 N ARG A 271 13.096 66.057 3.758 1.00 22.93 ATOM 2148 CB ILE A 270 12.196 66.058 41.797 1.00 22.73 ATOM 2149 CB ARG A 271 13.00 66.058 41.70 1.0		2122	N	PRO A	268	6.822	65.155			
ATOM 2125 CB PRO A 266 7.732 64.251 8.103 1.00 28.112 ATOM 2126 CG PRO A 268 7.041 64.081 6.742 1.00 25.57 ATOM 2127 C PRO A 268 9.133 64.085 7.305 1.00 25.57 ATOM 2128 O PRO A 268 9.133 64.085 7.304 1.00 27.55 ATOM 2129 N PRO A 268 9.136 64.085 7.304 1.00 27.55 ATOM 2129 N PRO A 268 9.136 65.974 7.555 1.00 31.71 ATOM 2129 N ILE A 269 11.549 64.374 7.339 1.00 21.70 ATOM 2110 Q ILE A 269 11.549 64.374 7.339 1.00 21.70 ATOM 2111 CB ILE A 269 11.549 64.374 7.339 1.00 21.70 ATOM 2112 CG2 ILE A 269 11.549 64.374 7.339 1.00 21.68 ATOM 2113 CB ILE A 269 11.549 64.374 7.339 1.00 21.68 ATOM 2113 CB ILE A 269 11.549 64.051 10.386 1.00 21.69 ATOM 2114 CB ILE A 269 11.798 64.051 10.386 1.00 21.69 ATOM 2115 C ILE A 269 11.798 64.052 64.051 10.00 21.77 ATOM 2136 CD ILE A 269 11.798 64.052 64.052 64.00 21.79 ATOM 2136 C ILE A 269 11.798 64.052 64.052 64.00 21.79 ATOM 2136 C ILE A 269 11.798 64.052 64.00 10.00 21.77 ATOM 2136 C ILE A 269 11.798 64.052 64.00 10.00 21.77 ATOM 2136 C ILE A 269 11.798 64.052 64.00 10.00 21.77 ATOM 2136 C ILE A 269 11.798 64.052 64.00 10.00 21.77 ATOM 2136 C ILE A 269 11.798 64.052 64.00 10.00 21.75 ATOM 2137 N HIS A 270 12.164 65.50 33 4.20 1.00 22.73 ATOM 2138 C A HIS A 270 12.164 65.50 33 4.20 1.00 22.73 ATOM 2140 CB HIS A 270 10.417 67.570 2.946 1.00 22.73 ATOM 2140 CB HIS A 270 10.417 67.570 2.946 1.00 20.41, 74 ATOM 2141 CB HIS A 270 10.417 67.570 2.946 1.00 20.91, 74 ATOM 2144 NEZ HIS A 270 10.418 66.855 4.997 1.00 11.00 11.58 ATOM 2144 NEZ HIS A 270 10.418 66.805 4.997 1.00 11.00 11.58 ATOM 2144 NEZ HIS A 270 10.418 66.805 4.997 1.00 11.00 11.58 ATOM 2144 NEZ HIS A 270 10.418 66.805 4.997 1.00 12.00 20.91 ATOM 2145 C HIS A 270 11.400 66.800 3.799 1.00 1.00 17.58 ATOM 2146 C HIS A 270 11.400 66.800 3.799 1.00 1.00 17.58 ATOM 2147 N ASG A 271 11.600 66.800 3.799 1.00 1.00 17.58 ATOM 2151 C D ASG A 271 11.600 66.800 3.799 1.00 1.00 17.58 ATOM 2152 C HIS A 270 11.600 66.800 3.799 1.00 1.00 17.58 ATOM 2154 N HIS A 270 1.000 66.800 3.799 1.00 1.00 17.58 ATOM 2156 C MIS A 271 11.800 66.800 3.799 1			CD	PRO A	268	5.648	65.466	7.989	1.00	
ATOM 2125 CB PRO A 268 7.043 64.081 6.742 1.00 25.57 ATOM 2126 CG PRO A 268 5.615 64.286 7.035 1.00 25.50 ATOM 2127 C PRO A 268 9.133 64.805 7.504 1.00 27.55 ATOM 2128 O PRO A 268 9.281 65.974 7.555 1.00 31.71 ATOM 2129 N ILE A 269 10.153 61.984 6.156 1.00 27.55 ATOM 2129 O ILE A 269 11.549 64.374 7.939 1.00 21.70 ATOM 2131 CB ILE A 269 11.549 64.374 7.939 1.00 21.70 ATOM 2131 CB ILE A 269 12.527 61.535 8.799 1.00 21.70 ATOM 2131 CB ILE A 269 12.527 61.535 8.799 1.00 21.70 ATOM 2131 CB ILE A 269 12.527 61.535 8.799 1.00 21.70 ATOM 2133 CG1 ILE A 269 12.527 61.535 8.799 1.00 21.70 ATOM 2133 CG1 ILE A 269 12.701 61.681 10.286 1.00 25.48 ATOM 2133 CG1 ILE A 269 12.701 61.681 10.286 1.00 25.48 ATOM 2134 CD1 ILE A 269 12.701 65.911 10.645 1.00 25.48 ATOM 2135 C ILE A 269 11.544 62.932 6.025 1.00 21.77 ATOM 2136 O ILE A 269 11.544 62.932 6.025 1.00 21.77 ATOM 2137 N HIS A 270 12.420 64.005 64.004 1.20 1.00 21.77 ATOM 2139 CB HIS A 270 12.420 64.004 4.280 1.00 21.73 ATOM 2139 CB HIS A 270 12.420 64.004 4.280 1.00 21.55 ATOM 2139 CB HIS A 270 10.613 66.507 3.785 1.00 21.73 ATOM 2139 CB HIS A 270 10.613 66.507 3.785 1.00 21.75 ATOM 2141 CD2 HIS A 270 10.613 66.507 3.785 1.00 12.53 ATOM 2141 CD2 HIS A 270 10.613 66.507 3.785 1.00 12.79 ATOM 2141 CD2 HIS A 270 10.613 66.507 3.785 1.00 12.79 ATOM 2141 CD2 HIS A 270 10.613 66.507 3.785 1.00 12.75 ATOM 2144 NEZ HIS A 270 10.613 66.507 3.785 1.00 12.75 ATOM 2144 NEZ HIS A 270 10.613 66.507 3.785 1.00 12.75 ATOM 2144 NEZ HIS A 270 10.613 66.507 3.785 1.00 12.75 ATOM 2144 NEZ HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00 12.75 ATOM 2145 C HIS A 270 11.406 66.885 4.995 1.00			0	PRO A	268	7.732	64.251	8.103	1.00	28.12
ATOM 2126 CG PRO A 268 S.615 64.286 7.035 1.00 25.50 ATOM 2127 C PRO A 268 9.131 64.805 7.504 1.00 27.55 ATOM 2128 O PRO A 268 9.281 65.974 7.555 1.00 31.71 ATOM 2129 N ILE A 269 11.549 64.374 7.555 1.00 31.71 ATOM 2130 Q ILE A 269 11.549 64.374 7.939 1.00 22.79 ATOM 2131 CB ILE A 269 11.549 64.374 7.939 1.00 22.76 ATOM 2131 CB ILE A 269 12.577 63.535 8.799 1.00 22.68 ATOM 2132 CG2 ILE A 269 12.771 63.861 10.266 1.00 16.936 ATOM 2133 CG1 ILE A 269 12.771 63.861 10.266 1.00 16.936 ATOM 2134 CD1 ILE A 269 12.761 65.311 10.645 1.00 12.95 ATOM 2135 C ILE A 269 11.784 64.052 6.470 1.00 21.77 ATOM 2136 O ILE A 269 11.784 64.052 6.470 1.00 21.77 ATOM 2137 N HIS A 270 12.496 65.043 5.696 1.00 22.77 ATOM 2138 CA HIS A 270 12.496 65.043 5.696 1.00 22.77 ATOM 2139 CB HIS A 270 11.616 65.466 3.768 1.00 22.73 ATOM 2140 CG HIS A 270 11.616 65.466 3.768 1.00 22.73 ATOM 2140 CG HIS A 270 10.611 65.466 3.768 1.00 20.75 ATOM 2141 CD2 HIS A 270 10.613 65.606 4.290 1.00 20.75 ATOM 2141 CD2 HIS A 270 10.613 65.606 4.929 4.100 20.93 ATOM 2141 CD2 HIS A 270 10.613 65.605 4.996 1.00 20.93 ATOM 2143 CD2 HIS A 270 10.613 65.600 3.703 1.00 20.93 ATOM 2144 CD2 HIS A 270 10.651 65.503 1.00 20.17.58 ATOM 2146 C HIS A 270 11.608 65.600 3.703 1.00 20.93 ATOM 2147 CD HIS A 270 11.608 65.600 3.703 1.00 20.93 ATOM 2148 C A ARG A 271 14.201 66.5126 2.689 1.00 20.93 ATOM 2149 CB ARG A 271 14.201 66.5126 2.699 1.00 20.93 ATOM 2149 CB ARG A 271 14.201 66.5126 2.699 1.00 20.93 ATOM 2149 CB ARG A 271 14.201 66.5126 2.699 1.00 20.93 ATOM 2149 CB ARG A 271 15.6015 65.136 2.592 2.057 1.00 20.83 ATOM 2149 CB ARG A 271 14.201 66.5126 2.699 1.00 22.67 ATOM 2149 CB ARG A 271 14.201 66.505 4.906 1.00 22.67 ATOM 2149 CB ARG A 271 15.6015 65.136 2.599 1.00 22.67 ATOM 2149 CB ARG A 271 15.6015 65.136 2.909 1.00 22.67 ATOM 2149 CB ARG A 271 15.6015 65.136 2.909 1.00 22.77 ATOM 2149 CB ARG A 271 15.6015 65.136 60.753 1.00 20.809 ATOM 2150 CG ARG A 271 15.6015 65.136 60.753 1.00 2.601 1.00 22.85 ATOM 2150 CG ARG A 271 15.6015 65.502 2.0057 1.00 22.79 ATOM 2160 CB A					268	7.043	64.081	6.742	1.00	25.57
ATOM 2128							64.286	7.035	1.00	25.50
ATOM 2129 N ILE A 268 9.281 65.974 7.555 1.00 31.71 ATOM 2129 N ILE A 269 10.153 63.984 6.156 1.00 22.679 ATOM 2131 CS ILE A 269 11.549 64.374 7.939 1.00 21.70 ATOM 2131 CS ILE A 269 12.527 63.535 8.799 1.00 21.68 ATOM 2132 CG2 ILE A 269 12.971 63.881 10.286 1.00 16.90 ATOM 2132 CG2 ILE A 269 12.971 63.881 10.286 1.00 16.90 ATOM 2132 CG2 ILE A 269 12.971 63.881 10.286 1.00 22.36 ATOM 2133 CS ILE A 269 12.771 63.881 10.286 1.00 22.35 ATOM 2134 CD1 ILE A 269 12.771 63.881 10.286 1.00 21.975 ATOM 2135 C ILE A 269 11.584 64.052 6.470 1.00 21.975 ATOM 2136 O ILE A 269 11.584 64.052 6.470 1.00 21.975 ATOM 2137 N HIS A 270 12.196 65.003 5.696 1.00 23.31 ATOM 2138 CA HIS A 270 12.196 65.003 5.696 1.00 22.73 ATOM 2139 CS HIS A 270 10.613 66.507 3.758 1.00 21.57 ATOM 2140 CG HIS A 270 10.613 66.507 3.758 1.00 12.470 ATOM 2141 CD2 HIS A 270 10.184 66.507 3.758 1.00 12.97 ATOM 2144 NEZ HIS A 270 10.186 65.605 4.997 1.00 16.63 ATOM 2144 NEZ HIS A 270 9.828 66.559 3.700 1.00 12.91 ATOM 2143 CEI HIS A 270 10.186 65.600 3.781 1.00 22.67 ATOM 2144 NEZ HIS A 270 10.186 65.500 3.700 1.00 12.68 ATOM 2144 NEZ HIS A 270 10.180 65.500 3.700 1.00 12.98 ATOM 2144 NEZ HIS A 270 10.180 65.500 3.700 1.00 12.691 ATOM 2144 NEZ HIS A 270 10.180 65.500 3.700 1.00 12.691 ATOM 2144 NEZ HIS A 270 11.508 65.593 7.700 1.00 12.693 ATOM 2145 C NIS A 270 11.508 65.593 7.700 1.00 12.693 ATOM 2146 NIS A 270 11.508 65.593 7.700 1.00 12.983 ATOM 2147 N ARG A 271 14.008 66.588 4.410 1.00 22.67 ATOM 2148 C A ARG A 271 14.08 66.588 4.410 1.00 22.67 ATOM 2149 CB ARG A 271 15.515 65.522 2.057 1.00 23.458 ATOM 2150 CG ARG A 271 15.615 65.592 2.057 1.00 23.458 ATOM 2150 CG ARG A 271 15.594 66.792 2.093 1.00 23.795 ATOM 2151 CD ARG A 271 15.615 65.593 2.007 1.00 23.458 ATOM 2152 NE ARG A 271 15.615 65.593 2.007 1.00 23.458 ATOM 2156 C ARG A 271 15.615 65.60 3.797 2.093 1.00 23.792 ATOM 2156 C ARG A 271 15.615 65.60 3.792 2.093 1.00 23.688 ATOM 2157 O ARG A 271 15.994 66.60 3.795 2.007 1.00 23.459 ATOM 2158 C C ARG A 271 15.994 66.60 3.795 2.007 1.00 23.459 ATOM							64.805	7.904	1.00	27.55
ATOM 2130 N ILE A 269 10.153 61.984 6.156 1.00 26.79 ATOM 2130 Q ILE A 269 11.599 64.374 7.939 1.00 21.70 ATOM 2132 CG2 ILE A 269 12.527 63.535 8.799 1.00 21.69 ATOM 2132 CG2 ILE A 269 12.527 61.535 8.799 1.00 21.69 ATOM 2134 CG1 ILE A 269 12.371 63.768 8.358 1.00 16.90 ATOM 2134 CG1 ILE A 269 12.371 63.768 8.358 1.00 12.536 ATOM 2135 C ILE A 269 12.371 63.881 10.286 1.00 25.36 ATOM 2136 C ILE A 269 11.788 64.052 6.470 1.00 21.95 ATOM 2136 C ILE A 269 11.788 64.052 6.470 1.00 21.95 ATOM 2136 C ILE A 269 11.788 64.052 6.470 1.00 21.77 ATOM 2136 C ILE A 269 11.788 64.052 6.470 1.00 21.77 ATOM 2136 C ILE A 269 11.788 64.052 6.470 1.00 21.75 ATOM 2138 C ILE A 269 11.788 64.052 6.470 1.00 21.75 ATOM 2138 C ILE A 270 12.195 65.043 6.650 1.00 22.73 ATOM 2138 C ILE A 270 10.613 66.507 3.758 1.00 22.33 ATOM 2140 CG ILIS A 270 10.613 66.507 3.758 1.00 20.475 ATOM 2141 CG ILIS A 270 10.417 67.570 2.946 1.00 20.47 ATOM 2144 NEZ ILIS A 270 10.417 67.570 2.946 1.00 20.47 ATOM 2144 NEZ ILIS A 270 10.417 66.559 3.700 1.00 20.91 ATOM 2144 NEZ ILIS A 270 10.417 66.559 3.700 1.00 20.88 ATOM 2144 NEZ ILIS A 270 10.417 66.559 3.700 1.00 20.88 ATOM 2144 C ILIS A 270 11.608 66.559 3.700 1.00 20.88 ATOM 2145 C ILIS A 270 11.608 66.559 3.700 1.00 20.83 ATOM 2146 C ILIS A 270 11.608 66.559 3.700 1.00 20.83 ATOM 2147 C ILIS A 270 11.608 66.559 3.700 1.00 20.83 ATOM 2148 C A ARG A 271 14.608 66.585 4.991 1.00 20.83 ATOM 2149 C A ARG A 271 14.501 66.500 3.793 1.00 22.67 ATOM 2149 C A ARG A 271 14.501 66.500 3.793 1.00 22.67 ATOM 2149 C A ARG A 271 14.501 66.500 3.793 1.00 22.67 ATOM 2149 C A ARG A 271 15.631 66.500 3.793 1.00 22.67 ATOM 2150 C A ARG A 271 15.631 66.500 3.793 1.00 22.83 ATOM 2150 C A ARG A 271 13.509 65.797 2.093 1.00 22.83 ATOM 2150 C A ARG A 271 13.509 65.797 2.093 1.00 22.83 ATOM 2150 C C ARG A 271 13.509 65.797 2.093 1.00 22.83 ATOM 2150 C C ARG A 271 13.500 66.500 3.793 1.00 22.83 ATOM 2150 C C ARG A 271 13.500 66.500 3.793 1.00 22.83 ATOM 2150 C C ARG A 271 13.500 66.500 3.793 1.00 22.83 ATOM 2150 C C ARG A 271 13.500									1.00	31.71
ATON 2130 C									1.00	26.79
ATOM 2131 CB ILE A 269 12.227 63.535 E.799 1.00 23.68 ATOM 2132 CG2 ILE A 269 12.371 63.881 10.386 1.00 25.36 ATOM 2133 CG1 ILE A 269 12.371 63.881 10.386 1.00 25.36 ATOM 2134 CD1 ILE A 269 12.761 65.311 10.645 1.00 25.36 ATOM 2135 C ILE A 269 12.761 65.311 10.645 1.00 25.36 ATOM 2136 CD ILE A 269 12.761 65.311 10.645 1.00 22.373 ATOM 2136 O ILE A 269 11.788 64.052 6.470 1.00 22.77 ATOM 2136 O ILE A 269 11.788 64.052 6.470 1.00 22.77 ATOM 2137 N HIS A 270 12.195 65.043 5.696 1.00 22.73 ATOM 2139 CB HIS A 270 12.420 64.808 4.220 1.00 22.73 ATOM 2139 CB HIS A 270 10.613 65.507 3.75E 1.00 12.427 ATOM 2140 CC HIS A 270 10.613 65.507 3.75E 1.00 12.427 ATOM 2141 CD2 HIS A 270 10.613 66.507 3.75E 1.00 12.427 ATOM 2142 ND1 HIS A 270 10.417 67.570 2.946 1.00 22.91 ATOM 2143 CB1 HIS A 270 10.418 66.855 4.997 1.00 10.758 ATOM 2144 NEZ HIS A 270 10.148 66.855 4.997 1.00 11.758 ATOM 2146 O HIS A 270 11.608 65.500 3.783 1.00 22.67 ATOM 2146 N HIS A 270 11.608 65.600 3.783 1.00 22.67 ATOM 2146 O HIS A 270 11.608 65.600 3.783 1.00 22.67 ATOM 2146 O HIS A 270 11.608 65.600 3.783 1.00 22.67 ATOM 2146 C A HIS A 270 11.608 65.588 4.410 1.00 22.67 ATOM 2146 C A AXG A 271 13.608 65.600 3.783 1.00 22.67 ATOM 2146 C A RIS A 270 11.608 65.588 4.410 1.00 22.67 ATOM 2146 C A AXG A 271 13.608 65.600 3.783 1.00 22.67 ATOM 2146 C A AXG A 271 13.608 65.588 4.410 1.00 22.83 ATOM 2147 N AXG A 271 13.608 65.600 3.783 1.00 22.67 ATOM 2148 C A AXG A 271 13.608 65.600 3.783 1.00 22.67 ATOM 2149 C B AXG A 271 13.608 65.600 3.783 1.00 22.67 ATOM 2149 C B AXG A 271 13.608 65.600 3.783 1.00 22.67 ATOM 2150 C G AXG A 271 13.608 65.601 3.783 1.00 22.67 ATOM 2150 C G AXG A 271 13.608 65.600 3.783 1.00 22.67 ATOM 2150 C G AXG A 271 13.608 65.884 4.10 1.00 22.83 ATOM 2150 C G AXG A 271 13.608 65.600 3.783 1.00 22.573 ATOM 2150 C G AXG A 271 13.608 65.600 3.783 1.00 22.573 ATOM 2150 C G AXG A 271 13.608 65.600 3.783 1.00 22.573 ATOM 2150 C G AXG A 271 13.608 65.600 3.783 1.00 22.573 ATOM 2150 C G AXG A 271 13.608 65.600 3.783 1.00 22.573 ATOM 2150 C G AXG A										21.70
ATOM 2132 CG2 1LE A 269 12.371 63.768 8.358 1.00 16.90 ATOM 2133 CG1 1LE A 269 12.371 63.768 8.358 1.00 25.36 ATOM 2134 CD1 1LE A 269 12.761 65.111 10.645 1.00 22.195 ATOM 2135 C 1LE A 269 11.784 61.952 6.670 1.00 22.73 ATOM 2136 O 1LE A 269 11.784 61.952 6.675 1.00 23.31 ATOM 2137 N HIS A 270 12.487 65.043 5.696 1.00 22.33 ATOM 2138 CA HIS A 270 12.480 65.043 5.696 1.00 22.33 ATOM 2139 CB HIS A 270 12.480 65.043 5.696 1.00 22.73 ATOM 2139 CB HIS A 270 10.417 67.570 2.946 1.00 22.73 ATOM 2139 CB HIS A 270 10.417 67.570 2.946 1.00 20.47 ATOM 2140 CG HIS A 270 10.417 67.570 2.946 1.00 20.47 ATOM 2141 CD2 HIS A 270 10.417 67.570 2.946 1.00 16.63 ATOM 2141 CD2 HIS A 270 10.417 67.570 2.946 1.00 12.95 ATOM 2143 CEL HIS A 270 10.418 66.885 4.997 1.00 18.74 ATOM 2144 NEZ HIS A 270 10.408 66.815 4.997 1.00 12.98 ATOM 2144 NEZ HIS A 270 10.408 66.855 3.700 1.00 22.83 ATOM 2144 NEZ HIS A 270 13.608 65.600 3.783 1.00 22.83 ATOM 2145 C HIS A 270 140.08 66.588 4.410 1.00 22.63 ATOM 2147 N AGG A 271 15.595 65.797 2.993 1.00 22.83 ATOM 2149 CB ARG A 271 15.595 65.797 2.993 1.00 22.83 ATOM 2149 CB ARG A 271 15.603 65.003 3.780 1.00 22.83 ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2149 CB ARG A 271 17.872 62.894 2.523 1.00 22.83 ATOM 2150 CG ARG A 271 15.601 65.359 2.057 1.00 23.65 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 23.75 ATOM 2152 NE ARG A 271 17.872 62.894 2.523 1.00 23.75 ATOM 2153 NE ARG A 271 17.872 62.894 2.523 1.00 23.75 ATOM 2154 NE ARG A 271 17.872 62.894 2.523 1.00 23.75 ATOM 2155 NEZ ARG A 271 17.872 62.894 2.523 1.00 23.75 ATOM 2151 NE ARG A 271 17.872 62.894 2.523 1.00 23.75 ATOM 2152 NE ARG A 271 15.601 65.503 5.607 1.441 1.00 22.83 ATOM 2153 NE ARG A 271 17.872 62.894 2.523 1.00 23.75 ATOM 2155 NEZ ARG A 271 15.603 66.757 2.003 1.00 23.75 ATOM 2159 NEZ ARG A 271 15.603 66.757 2.003 1.00 23.75 ATOM 2159 NEZ ARG A 271 15.606 66.757 3.550 1.00 23.65 ATOM 2159 NEZ ARG A 271 15.606 66.757 3.550 1.00 23.65 ATOM 2159 NEZ ARG A 271 18.906 66.757 3.550 1.00 23.65 ATOM 2159 NEZ ARG A 271 15.606										
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ATOM 2135 C	MOTA	2133								
ATOM 2136 C ILE A 269 11.544 62.932 6.025 1.00 23.31 ATOM 2137 N HIS A 270 12.196 65.043 5.696 1.00 22.73 ATOM 2139 CA HIS A 270 12.420 64.808 4.280 1.00 21.55 ATOM 2139 CB HIS A 270 10.613 6.507 3.758 1.00 16.63 ATOM 2140 CG HIS A 270 10.613 6.507 3.758 1.00 16.63 ATOM 2141 CD2 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2142 ND1 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2143 CE1 HIS A 270 9.680 68 .117 4.936 1.00 20.93 ATOM 2144 NC2 HIS A 270 9.680 68 .117 4.936 1.00 20.93 ATOM 2144 NC2 HIS A 270 10.49 6.685 4.997 1.00 18.74 ATOM 2145 C HIS A 270 13.608 65.600 3.783 1.00 22.693 ATOM 2147 N ARG A 271 14.008 66.588 4.410 1.00 22.693 ATOM 2147 N ARG A 271 15.359 65.797 2.093 1.00 22.693 ATOM 2149 CB ARG A 271 15.359 65.797 2.093 1.00 22.83 ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 17.872 62.894 2.523 1.00 23.79 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 23.79 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.22 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2154 NH ARG A 271 19.008 60.753 2.103 1.00 25.73 ATOM 2155 NE ARG A 271 19.008 60.753 2.103 1.00 25.73 ATOM 2158 N VAL A 272 19.081 59.607 1.441 1.00 25.73 ATOM 2158 N VAL A 272 15.994 66.702 -0.071 1.00 25.73 ATOM 2156 C ARG A 271 15.190 65.873 0.580 1.00 25.73 ATOM 2157 N ARG A 271 17.872 62.894 1.00 25.73 ATOM 2158 N VAL A 272 15.994 66.702 -0.071 1.00 26.81 ATOM 2159 C VAL A 272 15.561 68.310 -1.870 1.00 25.73 ATOM 2166 CA LYS A 273 18.009 66.702 -0.071 1.00 25.73 ATOM 2167 CB VAL A 272 15.561 68.310 -1.870 1.00 25.73 ATOM 2167 CB VAL A 272 15.566 6.857 -1.510 1.00 1.00 26.81 ATOM 2169 C VAL A 272 15.566 6.857 -1.510 1.00 1.00 26.81 ATOM 2169 C CB LYS A 273 18.009 66.702 -0.071 1.00 26.81 ATOM 2169 C CB LYS A 273 18.009 66.702 -0.071 1.00 26.81 ATOM 2169 C CB LYS A 273 16.685 59.514 -5.974 1.00 25.78 ATOM 2160 CB VAL A 272 17.396 66.702 -0.071 1.00 26.79 ATOM 2167 CB LYS A 273 16.685 59.514 -5.974 1.00 25.78 ATOM 2169 C CB LYS A 273 18.509 66.605 -0.075 1.00 25.79 ATOM 2169 C CB LYS A 273 18.509 6	MOTA	2134								
ATOM 2137 N HIS A 270 12.195 65.043 5.696 1.00 22.73 ATOM 2138 CA HIS A 270 12.495 65.043 5.696 1.00 22.73 ATOM 2139 CB HIS A 270 11.61 65.146 3.480 1.00 20.47 ATOM 2140 CG HIS A 270 10.613 66.507 3.788 1.00 20.47 ATOM 2141 CD2 HIS A 270 10.613 66.507 3.788 1.00 20.47 ATOM 2142 ND1 HIS A 270 10.417 67.570 2.946 1.00 20.47 ATOM 2142 ND1 HIS A 270 10.417 67.570 2.946 1.00 20.93 ATOM 2143 CEI HIS A 270 9.680 68.117 4.936 1.00 20.93 ATOM 2144 NE2 HIS A 270 9.680 68.117 4.936 1.00 20.88 ATOM 2144 NE2 HIS A 270 9.828 68.559 3.700 1.00 17.58 ATOM 2145 C HIS A 270 14.008 66.585 4.997 1.00 20.88 ATOM 2146 O HIS A 270 14.008 66.588 4.410 1.00 22.83 ATOM 2147 N AMG A 271 14.201 65.136 2.689 1.00 22.83 ATOM 2149 CA AMG A 271 14.201 65.136 2.689 1.00 22.83 ATOM 2149 CA AMG A 271 14.201 65.136 2.689 1.00 22.83 ATOM 2149 CA AMG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2151 CD AMG A 271 17.872 62.894 2.523 1.00 23.45 ATOM 2151 CD AMG A 271 17.872 62.894 2.523 1.00 23.45 ATOM 2152 N AMG A 271 17.872 62.894 2.523 1.00 25.28 ATOM 2153 CZ AMG A 271 17.872 62.894 2.523 1.00 25.283 ATOM 2153 CZ AMG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2154 NH1 AMG A 271 19.008 60.753 2.103 1.00 25.36 ATOM 2155 NH2 AMG A 271 19.008 60.753 2.103 1.00 25.36 ATOM 2155 NH2 AMG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C AMG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2157 O AMG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C AMG A 271 17.732 66.893 1.00 29.48 ATOM 2157 O AMG A 271 17.732 66.893 1.00 29.48 ATOM 2158 N VAL A 272 15.878 66.702 -0.071 1.491 1.00 25.73 ATOM 2156 C AMG A 271 17.732 66.893 1.00 29.40 ATOM 2157 O AMG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C AMG A 271 17.752 63.873 65.007 1.441 1.00 25.73 ATOM 2156 C AMG A 271 17.752 63.873 65.007 1.441 1.00 25.73 ATOM 2156 C AMG A 271 17.752 63.873 65.007 1.441 1.00 25.73 ATOM 2156 C AMG A 271 17.752 63.873 65.007 1.441 1.00 25.73 ATOM 2156 C C AMG A 271 17.752 63.873 65.486 1.00 25.96 ATOM 2157 O C AMG A 271 17.752 63.873 65.486 1.00 25.96 ATOM 2168 C C AMG A 271 17.752 66.485	MOTA	2135	С	ILE A						
ATOM 2136 CA HIS A 270 12.420	MOTA	2136	0	ILE A	269					
ATOM 2139 CB HIS A 270 11.161 65.146 3.48C 1.00 20.47 ATOM 2140 CG HIS A 270 10.613 66.507 3.758 1.00 16.63 ATOM 2141 CD2 HIS A 270 10.613 66.507 3.758 1.00 20.91 ATOM 2142 ND1 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2142 ND1 HIS A 270 10.148 66.855 4.957 1.00 20.91 ATOM 2144 NE2 HIS A 270 9.680 68.117 4.936 1.00 20.88 ATOM 2144 NE2 HIS A 270 9.828 68.559 3.700 1.00 17.58 ATOM 2145 C HIS A 270 14.008 66.588 4.497 1.00 22.67 ATOM 2146 O HIS A 270 14.008 66.588 4.410 1.00 22.67 ATOM 2147 N ARG A 271 14.201 65.136 2.689 1.00 22.87 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 22.87 ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.55 ATOM 2151 CD ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2152 NR ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2154 NH ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2156 C ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2157 O ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C ARG A 271 17.872 62.894 2.525 1.00 25.689 ATOM 2157 O ARG A 271 17.873 66.873 0.580 1.00 23.68 ATOM 2157 O ARG A 271 17.873 67.874 67.875 67.97 1.441 1.00 25.73 ATOM 2156 C ARG A 271 17.875 67.875 67.975 1.00 12.681 ATOM 2157 O ARG A 271 17.876 67.875 67.00 1.00 20.681 ATOM 2156 C ARG A 271 17.876 67.875 67.00 1.00 20.681 ATOM 2156 C ARG A 271 17.750 68.873 0.580 1.00 23.68 ATOM 2157 O ARG A 271 17.750 68.873 0.580 1.00 25.683 ATOM 2156 C ARG A 271 17.750 68.873 0.580 1.00 25.683 ATOM 2156 C ARG A 271 17.750 68.873 0.580 1.00 25.683 ATOM 2156 C ARG A 271 17.750 68.873 0.580 1.00 25.683 ATOM 2156 C ARG A 271 17.750 68.873 0.580 1.00 25.683 ATOM 2156 C ARG A 271 17.750 68.873 0.580 1.00 25.684 ATOM 2166 C A VAL A 272 15.878 66.653 0.740 0.580 1.00 25.753 ATOM 2166 C A VAL A 272 15.879 66.6653 0.750 1.00 27.72 ATOM 2170 C E LYS A 273 18.698 65.599 0.750 1.00 27.72 ATOM 2171 NE LYS A 273 18.6	MOTA	2137	N	HIS A	270	12.196	65.043			
ATOM 2149 CB HIS A 270 11.161 65.146 3.486 1.00 20.47 ATOM 2141 CD2 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2141 CD2 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2142 ND1 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2143 CE1 HIS A 270 9.680 68.117 4.936 1.00 20.88 ATOM 2144 NE2 HIS A 270 13.608 65.600 3.783 1.00 22.67 ATOM 2146 O HIS A 270 14.008 65.600 3.783 1.00 22.67 ATOM 2146 O HIS A 270 14.008 65.600 3.783 1.00 22.67 ATOM 2147 N ARG A 271 15.359 65.797 2.093 1.00 23.83 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 23.83 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 23.83 ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.631 63.992 2.057 1.00 23.45 ATOM 2151 CD ARG A 271 18.020 61.603 1.862 1.00 22.83 ATOM 2152 NE ARG A 271 18.020 61.603 1.862 1.00 22.83 ATOM 2153 CZ ARG A 271 19.908 60.753 2.103 1.00 25.53 ATOM 2154 NH1 ARG A 271 19.088 65.791 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.088 60.753 2.103 1.00 25.53 ATOM 2157 O ARG A 271 15.190 65.873 0.580 1.00 22.683 ATOM 2157 O ARG A 271 15.190 65.873 0.580 1.00 22.573 ATOM 2158 N VAL A 272 15.190 65.873 0.580 1.00 22.683 ATOM 2157 O ARG A 271 15.190 65.873 0.580 1.00 22.681 ATOM 2158 N VAL A 272 15.561 68.310 -1.870 1.00 11.63 ATOM 2156 CB VAL A 272 15.561 68.310 -1.870 1.00 11.63 ATOM 2160 CG VAL A 272 15.561 68.310 -1.870 1.00 12.681 ATOM 2161 CG1 VAL A 272 15.561 68.310 -1.870 1.00 12.583 ATOM 2166 CB VAL A 272 15.561 68.310 -1.870 1.00 22.19 ATOM 2166 CB VAL A 272 15.561 68.310 -1.870 1.00 22.583 ATOM 2167 CG VAL A 272 15.561 68.310 -1.870 1.00 22.583 ATOM 2166 CB VAL A 272 15.561 68.310 -1.870 1.00 22.583 ATOM 2166 CB VAL A 272 15.878 66.857 -1.510 1.00 22.583 ATOM 2167 CG VAL A 272 15.878 66.844 -1.3555 1.00 1.00 22.583 ATOM 2166 CB VAL A 272 15.878 66.857 -1.510 1.00 22.583 ATOM 2166 CB VAL A 272 15.878 66.857 -1.510 1.00 22.583 ATOM 2167 CG VAL A 272 17.394 66.818 -2.248 1.00 22.584 ATOM 2168 CG VAL A 272 17.395 66.995 -1.395 1.00 22.584 ATOM 2167 CB LYS A 273 18.595 66.618 -2.259 -3.553 1.00 22.584 ATOM		2138	CA	HIS A	270	12.420	64.808			
ATOM 2140 CG HIS A 270 10.613 66.507 3.75E 1.00 16.63 ATOM 2141 CD2 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2143 CD1 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2143 CD1 HIS A 270 10.418 66.865 4.997 1.00 18.74 ATOM 2144 NEZ HIS A 270 9.828 68.559 3.700 1.00 17.58 ATOM 2145 C HIS A 270 13.608 65.600 3.783 1.00 22.67 ATOM 2145 C HIS A 270 13.608 65.600 3.783 1.00 22.67 ATOM 2146 O HIS A 270 14.008 66.588 4.410 1.00 23.83 ATOM 2147 N ARG A 271 14.201 65.136 2.689 1.00 20.85 ATOM 2149 CB ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2149 CB ARG A 271 16.615 63.592 2.057 1.00 23.45 ATOM 2150 CG ARG A 271 16.615 63.592 2.057 1.00 23.45 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.25 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.23 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NE ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2156 C ARG A 271 19.008 60.753 2.103 1.00 25.73 ATOM 2157 NEV ARG A 271 19.008 60.753 2.103 1.00 25.73 ATOM 2158 NEV ARG A 271 19.081 60.753 2.103 1.00 25.73 ATOM 2158 NEV ARG A 271 19.081 60.753 2.103 1.00 25.73 ATOM 2158 NEV ARG A 271 19.081 60.753 2.003 1.00 25.73 ATOM 2157 NEV ARG A 271 19.081 60.753 2.003 1.00 25.73 ATOM 2158 N VAL A 272 15.896 66.857 0.580 1.00 23.688 ATOM 2158 N VAL A 272 15.896 66.807 0.0071 1.00 25.81 ATOM 2156 C ARG A 271 15.190 65.873 0.580 1.00 23.688 ATOM 2157 NEV ARG A 271 15.190 65.873 0.580 1.00 23.688 ATOM 2158 N VAL A 272 15.898 66.857 -0.570 1.441 1.00 25.73 ATOM 2160 CB VAL A 272 15.898 66.857 -0.570 1.441 1.00 25.73 ATOM 2165 N VAL A 272 15.898 66.857 -0.590 1.00 29.40 ATOM 2167 CG VAL A 272 15.898 66.857 -0.590 1.00 29.40 ATOM 2168 C VAL A 272 15.898 66.857 -0.590 1.00 29.40 ATOM 2169 CD VAL A 272 15.898 66.857 -0.590 1.00 29.40 ATOM 2160 CB VAL A 272 17.335 62.992 -0.753 1.00 31.66 ATOM 2161 CG1 VAL A 272 15.898 66.859 -0.496 1.00 25.89 ATOM 2168 CC VAL A 272 17.355 62.992 -0.753 1.00 27.72 ATOM 2166 CA YA 2 2 2 3 16.985 65.396 -3.992 1.00 27.72 ATOM 2167 CB TRP A 274 22.906 66.663 -0.906 1.00 22.908 ATOM 2170 CE LYS A 2			CB	HIS A	270	11.161	65.146	3.480		
ATOM 2141 CD2 HIS A 270 10.417 67.570 2.946 1.00 20.91 ATOM 2142 ND1 HIS A 270 10.148 66.885 4.997 1.00 118.74 ATOM 2144 NE2 HIS A 270 9.680 68.117 4.936 1.00 20.88 ATOM 2144 NE2 HIS A 270 9.882 68.559 3.700 1.00 17.58 ATOM 2145 C HIS A 270 13.608 65.600 3.783 1.00 22.67 ATOM 2146 O HIS A 270 14.008 65.600 3.783 1.00 22.67 ATOM 2147 N ARG A 271 14.201 65.136 2.689 1.00 23.83 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2149 CB ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2149 CB ARG A 271 16.631 63.592 2.057 1.00 23.45 ATOM 2150 CG ARG A 271 16.615 63.592 2.057 1.00 23.45 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.22 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2154 NH1 ARG A 271 19.081 65.601 3.862 1.00 25.83 ATOM 2155 NH2 ARG A 271 19.081 65.607 1.441 1.00 25.73 ATOM 2155 NH2 ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C ARG A 271 15.190 65.873 0.580 1.00 23.68 ATOM 2157 NH2 ARG A 271 19.081 65.873 0.580 1.00 23.68 ATOM 2158 N VAL A 272 15.994 66.702 -0.071 1.00 23.68 ATOM 2156 C ARG A 271 15.190 65.873 0.580 1.00 23.68 ATOM 2157 NH2 ARG A 271 15.561 68.310 1.862 1.00 25.681 ATOM 2156 C ARG A 271 15.190 65.873 0.580 1.00 23.68 ATOM 2157 N VAL A 272 15.5878 66.857 -1.510 1.00 25.681 ATOM 2156 C ARG A 271 15.596 66.991 -0.001 1.00 26.81 ATOM 2157 N VAL A 272 15.5878 66.857 -1.510 1.00 18.76 ATOM 2165 N VAL A 272 15.5878 66.857 -1.510 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.5878 66.857 -1.510 1.00 17.63 ATOM 2163 C VAL A 272 15.5878 66.857 -1.510 1.00 17.63 ATOM 2165 N VAL A 272 15.5878 66.857 -1.510 1.00 17.63 ATOM 2167 CB LYS A 273 16.985 66.391 -2.050 1.00 27.72 ATOM 2168 C CG2 VAL A 272 15.566 66.991 -2.050 1.00 27.72 ATOM 2166 C LYS A 273 16.985 65.896 -3.992 1.00 27.72 ATOM 2167 CB LYS A 273 16.985 65.897 -4.645 1.00 25.28 ATOM 2167 CB LYS A 273 16.985 65.897 -4.645 1.00 25.98 ATOM 2168 CA LYS A 273 16.985 65.897 -4.645 1.00 25.98 ATOM 2168 CB LYS A 273 16.985 65.897 -4.645 1.00 25.98 ATOM 2168 CB LYS A 273 16.8			CG	HIS A	270	10.613	66.507	3.758	1.00	16.63
ATOM 2142 ND1 HIS A 270 10.148 66.885 4.997 1.00 18.74 ATOM 2143 CE1 HIS A 270 9.680 66.117 4.936 1.00 22.88 ATOM 2144 NE2 HIS A 270 9.680 66.559 3.700 1.00 17.58 ATOM 2145 C HIS A 270 13.608 65.500 3.781 1.00 22.67 ATOM 2146 O HIS A 270 14.008 66.588 4.410 1.00 22.67 ATOM 2147 N ARG A 271 14.201 65.136 2.689 1.00 20.85 ATOM 2147 N ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.87 ATOM 2150 CG ARG A 271 16.635 63.592 2.057 1.00 23.45 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.28 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.23 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.33 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2157 O ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2158 N VAL A 272 15.896 66.702 -0.071 1.00 23.68 ATOM 2158 N VAL A 272 15.896 66.702 -0.071 1.00 22.81 ATOM 2158 N VAL A 272 15.896 66.857 1.510 1.00 120.681 ATOM 2160 CB VAL A 272 15.896 66.857 -1.510 1.00 17.63 ATOM 2160 CB VAL A 272 15.896 66.857 -1.510 1.00 17.63 ATOM 2165 N VAL A 272 15.896 66.857 -1.510 1.00 17.63 ATOM 2165 N VAL A 272 15.898 66.973 -1.500 1.00 29.48 ATOM 2166 CR VAL A 272 15.896 66.857 -1.510 1.00 17.63 ATOM 2166 CR VAL A 272 15.896 66.857 -1.510 1.00 17.63 ATOM 2166 N VAL A 272 15.898 66.857 -1.510 1.00 17.63 ATOM 2167 CB VAL A 272 15.898 66.857 -1.510 1.00 17.63 ATOM 2166 N VAL A 272 15.898 66.857 -1.510 1.00 17.63 ATOM 2167 CB VAL A 272 17.335 66.466 -1.355 1.00 1.00 22.89 ATOM 2167 CB VAL A 272 15.366 66.857 -1.510 1.00 17.63 ATOM 2166 CA YAS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2167 CB VAL A 272 17.355 62.992 -3.753 1.00 31.66 ATOM 2167 CB VAL A 272 17.355 62.992 -3.753 1.00 31.66 ATOM 2167 CB TRP A 274 22.906 66.66.89 -7.651 1.00 22.99 ATOM 2168 CC YAL A 272 17.355 66.846 -1.355 -4.476 1.00 25.89 ATOM 2167 CB TRP A 274 22.906 66.66.89 -7.451 1.00 22.90 ATOM 2168 CC TRP A 274 22.906 66.66.89 -7.461 1.00 22.92 ATOM 2179 CC TRP A				HIS A	270	10.417	67.570	2.946	1.00	20.91
ATOM 2143 CEI HIS A 270 9.680 68 .117 4.936 1.00 20.88 ATOM 2144 NE2 HIS A 270 9.828 68.559 1.700 1.00 17.58 ATOM 2144 NE2 HIS A 270 13.608 65.600 3.783 1.00 22.67 ATOM 2146 0 HIS A 270 14.008 66.588 4.410 1.00 22.87 ATOM 2147 N ARG A 271 14.201 65.136 2.669 1.00 20.85 ATOM 2147 N ARG A 271 14.201 65.136 2.669 1.00 20.85 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 22.87 ATOM 2148 CA ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 23.45 ATOM 2152 NE ARG A 271 18.020 61.603 1.862 1.00 25.22 ATOM 2151 CD ARG A 271 19.008 60.753 2.103 1.862 1.00 25.23 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.862 1.00 25.33 ATOM 2153 NH2 ARG A 271 19.931 61.058 2.996 1.00 23.68 ATOM 2155 NH2 ARG A 271 19.931 61.058 2.996 1.00 23.68 ATOM 2155 NH2 ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2155 NH2 ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2155 NH2 ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2155 NH2 ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2155 C ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2155 C ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2156 C ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2156 C ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2156 C ARG A 271 15.190 65.873 0.586 1.00 23.68 ATOM 2156 C ARG A 271 14.319 65.211 0.010 1.00 26.81 ATOM 2156 C ARG A 271 14.319 65.211 0.010 1.00 26.81 ATOM 2156 C ARG A 271 15.594 66.702 -0.071 1.00 22.19 ATOM 2156 C ARG A 271 17.575 66.836 66.846 -3.355 1.00 13.66 ATOM 2156 C ARG A 271 17.575 66.846 -3.355 1.00 17.63 ATOM 2156 C ARG A 271 17.575 66.846 -3.355 1.00 17.63 ATOM 2156 C ARG A 273 17.575 66.846 -3.355 1.00 17.63 ATOM 2156 C ARG A 273 17.575 66.846 -3.355 1.00 25.28 ATOM 2157 C B LYS A 273 18.559 64.845 -3.919 1.00 25.89 ATOM 2166 C A LYS A 273 16.963 66.485 -3.919 1.00 25.89 ATOM 2167 C B LYS A 273 16.963 66.485 -3.919 1.00 25.89 ATOM 2167 C B LYS A 273 16.963 66.89 -7.551 1.00 24.01 ATOM 2170 C B LYS A 273 16.965 67.60 67.647 -0.00 21.00 22.17 ATOM 2170 C B LY					270	10.148	66.885	4.997	1.00	18.74
ATOM 2144 NEZ HIS A 270 9,828 68.559 3.700 1.00 17.58 ATOM 2145 C HIS A 270 13.608 65.600 3.783 1.00 22.67 ATOM 2146 O HIS A 270 14.008 66.588 4.410 1.00 23.83 ATOM 2147 N ARG A 271 14.201 65.336 2.689 1.00 23.83 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2152 NE ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2152 NE ARG A 271 19.908 60.753 2.103 1.00 25.33 ATOM 2153 CZ ARG A 271 19.908 60.753 2.103 1.00 25.53 ATOM 2154 NH1 ARG A 271 19.931 61.058 2.996 1.00 25.53 ATOM 2155 NE ARG A 271 19.088 60.753 2.103 1.00 25.53 ATOM 2155 NE ARG A 271 19.081 65.607 1.441 1.00 25.73 ATOM 2155 NE ARG A 271 19.081 65.873 0.580 1.00 25.48 ATOM 2155 NEZ ARG A 271 19.081 65.873 0.580 1.00 25.48 ATOM 2155 O ARG A 271 15.190 65.873 0.580 1.00 25.68 ATOM 2156 C ARG A 271 15.190 65.873 0.580 1.00 25.68 ATOM 2157 O ARG A 271 15.394 66.702 -0.071 1.00 22.19 ATOM 2159 Q VAL A 272 15.894 66.870 -0.071 1.00 22.19 ATOM 2150 CB VAL A 272 15.808 66.857 -1.510 1.00 10.76.33 ATOM 2160 CB VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2160 CB VAL A 272 15.867 66.813 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.867 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 15.867 66.418 -2.248 1.00 25.88 ATOM 2166 CA LYS A 273 16.985 66.983 -2.050 1.00 27.40 ATOM 2166 CA LYS A 273 16.985 66.385 -3.092 1.00 27.72 ATOM 2166 CG LYS A 273 16.985 66.385 -3.092 1.00 27.74 ATOM 2167 CB LYS A 273 16.985 66.651 -6.267 1.00 27.75 ATOM 2167 CB LYS A 273 16.985 66.653 -3.092 1.00 27.75 ATOM 2167 CB LYS A 273 16.985 66.653 -3.092 1.00 27.75 ATOM 2167 CB LYS A 273 16.985 66.653 -3.092 1.00 27.75 ATOM 2167 CB LYS A 273 16.985 66.653 -3.092 1.00 27.75 ATOM 2167 CB LYS A 273 16.985 66.653 -3.092 1.00 27.75 ATOM 2170 CE LYS A 273 16.985 66.653 -3.092 1.00 27.75 ATOM 2171 NZ LYS A 273 16.985 66.653 -3.486 1.00 25.98 ATOM 2173 C LYS A 273 16.985 66.653 -3.092 1.00 22.00 ATOM 2174 N TRP A 274 23.997 66.							68 .117	4.936	1.00	20.88
ATOM 2145 C HIS A 270 13,608 65.600 3.783 1.00 22.57 ATOM 2146 O HIS A 270 14.008 66.588 4.410 1.00 23.83 ATOM 2147 N ARG A 271 14.201 65.136 2.689 1.00 23.83 ATOM 2148 CA ARG A 271 15.359 65.797 2.033 1.00 23.79 ATOM 2148 CA ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 23.79 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.28 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.23 ATOM 2155 NH2 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.001 65.873 0.580 1.00 23.668 ATOM 2157 O ARG A 271 15.190 65.873 0.580 1.00 23.668 ATOM 2158 N VAL A 272 15.594 66.702 -0.071 1.00 22.19 ATOM 2158 O VAL A 272 15.561 68.310 -1.870 1.00 12.681 ATOM 2160 CB VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2165 C B VAL A 272 17.532 66.3846 -3.355 1.00 18.50 ATOM 2166 CB VAL A 272 17.732 66.418 -2.248 1.00 25.28 ATOM 2167 C B LYS A 273 16.985 66.393 -2.050 1.00 29.40 ATOM 2169 CD LYS A 273 16.985 66.393 -2.050 1.00 29.40 ATOM 2169 CD LYS A 273 16.985 66.396 -3.091 1.00 25.89 ATOM 2167 CB LYS A 273 16.985 66.396 -3.091 1.00 25.99 ATOM 2169 CD LYS A 273 16.985 66.396 -3.091 1.00 25.99 ATOM 2169 CD LYS A 273 16.965 66.396 -3.091 1.00 25.99 ATOM 2169 CD LYS A 273 16.965 66.396 -3.091 1.00 25.99 ATOM 2169 CD LYS A 273 16.965 66.396 -3.091 1.00 25.99 ATOM 2169 CD LYS A 273 16.965 66.396 -3.091 1.00 25.99 ATOM 2170 CE LYS A 273 16.965 66.396 -3.091 1.00 25.99 ATOM 2171 NZ LYS A 273 16.965 66.396 -3.099 1.00 25.99 ATOM 2172 C LYS A 273 16.965 66.396 -3.099 1.00 25.99 ATOM 2174 N TRP A 274 23.997 67.812 -9.008 1.00 25.99 ATOM 2175 CB TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATOM 2178 CB TRP A 274								3.700	1.00	17.58
ATOM 2145 O HIS A 270 14.008 66.588 4.410 1.00 23.883 ATOM 2147 N ARG A 271 14.201 65.136 2.689 1.00 20.85 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2149 CB ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2150 CG ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2151 CD ARG A 271 18.020 61.603 1.862 1.00 25.22 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.22 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2153 NE ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NHZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NHZ ARG A 271 19.008 50.753 2.103 1.00 25.73 ATOM 2155 NHZ ARG A 271 19.008 50.753 2.103 1.00 25.73 ATOM 2155 NHZ ARG A 271 19.008 50.753 2.103 1.00 25.73 ATOM 2155 NHZ ARG A 271 19.008 50.753 2.103 1.00 25.73 ATOM 2155 NHZ ARG A 271 19.008 50.753 2.103 1.00 25.73 ATOM 2155 NHZ ARG A 271 19.008 50.753 2.103 1.00 25.73 ATOM 2155 O ARG A 271 15.190 65.873 0.580 1.00 23.688 ATOM 2155 NHZ ARG A 271 15.190 65.873 0.580 1.00 22.169 ATOM 2159 Q VAL A 272 15.561 66.873 0.580 1.00 22.19 ATOM 2159 Q VAL A 272 15.578 66.857 -1.510 1.00 18.76 ATOM 2160 CG VAL A 272 15.578 66.857 -1.510 1.00 18.76 ATOM 2160 CG VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.561 68.310 -1.870 1.00 15.51 ATOM 2163 C VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2164 O VAL A 272 15.878 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2166 CA LVS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LVS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LVS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LVS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2167 CG LVS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2167 CG LVS A 273 16.985 65.396 -3.092 1.00 25.98 ATOM 2170 CG LVS A 273 16.985 66.630 -3.092 1.00 25.98 ATOM 2171 CG LVS A 273 16.985 66.630 -3.092 1.00 25.99 ATOM 2171 CG LVS A 273 16.985 66.630 -3.092 1.00 25.99 ATOM 2173 CG LVS A 273 16.985 66.630 -3.092 1.00 25.99 ATOM 2178 CG LVS A 274 23.9								3.783	1.00	22.57
ATOM 2149 N ARG A 271 14.201 65.136 2.689 1.00 23.79 ATOM 2148 CA ARG A 271 15.359 65.797 2.093 1.00 23.79 ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2152 NE ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.931 61.058 2.996 1.00 29.46 ATOM 2155 NH2 ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C ARG A 271 15.190 65.873 0.580 1.00 23.68 ATOM 2157 O ARG A 271 14.319 65.211 0.010 1.00 26.81 ATOM 2158 N VAL A 272 15.994 66.702 -0.071 1.00 22.19 ATOM 2158 N VAL A 272 15.878 66.857 -1.510 1.00 18.76 ATOM 2160 CB VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.326 68.446 -3.155 1.00 18.76 ATOM 2163 C VAL A 272 15.326 68.446 -3.155 1.00 15.11 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2166 CA LYS A 273 18.059 64.845 -3.991 1.00 27.72 ATOM 2166 CA LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2167 CB LYS A 273 17.555 62.392 -3.753 1.00 31.66 ATOM 2167 CB LYS A 273 17.555 62.392 -3.753 1.00 31.66 ATOM 2167 CB LYS A 273 16.985 65.396 -3.992 1.00 27.72 ATOM 2166 CG LYS A 273 17.557 62.357 -4.645 1.00 27.95 ATOM 2167 CB LYS A 273 17.555 62.392 -3.753 1.00 31.66 ATOM 2167 CB LYS A 273 17.555 62.392 -3.753 1.00 27.795 ATOM 2168 CG LYS A 273 16.985 65.396 -3.992 1.00 27.795 ATOM 2167 CB LYS A 273 16.985 65.897 -4.645 1.00 27.95 ATOM 2170 CE LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2171 NZ LYS A 273 16.985 65.897 -4.645 1.00 27.95 ATOM 2170 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2171 NZ LYS A 273 16.985 65.396 -3.992 1.00 25.89 ATOM 2173 O LYS A 273 16.985 65.396 -3.992 1.00 25.99 ATOM 2176 CB LYS A 273 17.572 63.587 -4.645 1.00 25.99 ATOM 2177 NZ LYS A 273 16.985 65.397 -3.991 1.00 25.99 ATOM 2177 NZ LYS A 273 16.985 66.689 -7.417 1.00 26.21 ATOM 2178 CD TRP A 274 22.909 68.699 -7.581 1.00 22.02 ATOM 2180 CC2 TRP A 274 22								4.410	1.00	23.83
ATOM 2149 CA ARG A 271 15.359 65.797 2.093 1.00 22.379 ATOM 2149 CB ARG A 271 16.631 63.592 2.057 1.00 23.45 ATOM 2150 CG ARG A 271 16.631 63.592 2.057 1.00 23.45 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2152 NE ARG A 271 19.008 60.753 2.103 1.00 25.52 ATOM 2153 NE ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2154 NH1 ARG A 271 19.931 61.058 2.996 1.00 29.48 ATOM 2155 NH2 ARG A 271 19.931 61.058 2.996 1.00 29.48 ATOM 2155 O ARG A 271 19.931 61.058 2.996 1.00 23.68 ATOM 2156 C ARG A 271 14.319 65.873 0.580 1.00 23.68 ATOM 2157 O ARG A 271 14.319 65.211 0.010 1.00 26.89 ATOM 2159 O VAL A 272 15.994 66.702 -0.071 1.00 22.19 ATOM 2159 O VAL A 272 15.878 66.857 -1.510 1.00 18.76 ATOM 2160 CB VAL A 272 15.561 68.310 -1.870 1.00 18.76 ATOM 2161 CGI VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2166 CG VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2166 CA LYS A 273 16.985 65.396 -3.092 1.00 29.40 ATOM 2166 CA LYS A 273 16.985 65.396 -3.092 1.00 29.40 ATOM 2166 CA LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CB LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CB LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2167 CB LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2167 CB LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 25.28 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 27.95 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 25.99 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 25.98 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 25.98 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 25.98 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 25.98 ATOM 2167 CB LYS A 273 16.985 65.837 -4.645 1.00 25.98 ATOM 2168 CG LYS A 273 16.985 65.837 -4.645 1.00 25.98 ATOM 2170 CE LYS A 273 16.985 65.837 -4.645 1.00 25.99 ATOM 2171 CC LYS A 273 16.985 65.837 -4.645 1.00 25.99 ATOM 2172 C LYS A 273 17.355 66.66 6.62 6.79 -5.526 1.00 25.99 ATOM 2173 O LYS A 273 17.784 66.670 -5.621 1.00 25.99 ATOM 2178 CD TRP									1.00	20.85
ATOM 2149 CB ARG A 271 16.631 65.043 2.461 1.00 22.83 ATOM 2150 CG ARG A 271 16.615 63.592 2.057 1.00 23.45 ATOM 2151 CD ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2152 NE ARG A 271 17.872 62.894 2.523 1.00 25.22 ATOM 2153 CZ ARG A 271 19.008 60.753 2.103 1.00 25.83 ATOM 2154 NH1 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.008 60.753 2.103 1.00 25.53 ATOM 2155 NH2 ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2155 NH2 ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2156 C ARG A 271 19.081 59.607 1.441 1.00 25.73 ATOM 2157 O ARG A 271 15.190 65.873 0.580 1.00 23.68 ATOM 2158 N VAL A 272 15.190 65.873 0.580 1.00 23.68 ATOM 2159 Q VAL A 272 15.878 66.857 -1.510 1.00 1.00 26.81 ATOM 2150 CB VAL A 272 15.561 68.310 -1.870 1.00 18.76 ATOM 2160 CB VAL A 272 15.566 68.857 -1.510 1.00 18.76 ATOM 2161 CG1 VAL A 272 15.326 68.466 -3.355 1.00 18.50 ATOM 2162 CG2 VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.88 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 17.572 63.587 -4.645 1.00 27.75 ATOM 2166 CA LYS A 273 17.572 63.587 -4.645 1.00 27.75 ATOM 2166 CA LYS A 273 17.572 63.587 -4.645 1.00 27.75 ATOM 2167 CB LYS A 273 17.572 63.587 -4.665 1.00 27.75 ATOM 2168 CG LYS A 273 17.572 63.587 -4.645 1.00 27.75 ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.75 ATOM 2168 CG LYS A 273 17.572 63.587 -4.665 1.00 27.75 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 CC LYS A 273 16.963 60.740 -5.621 1.00 42.41 ATOM 2173 O LYS A 273 16.963 60.740 -5.621 1.00 42.41 ATOM 2175 CB TRP A 274 23.996 66.616 -6.267 1.00 22.99 ATOM 2177 CG TRP A 274 23.997 67.812 -9.008 1.00 22.99 ATOM 2178 CD2 TRP A 274 23.997 67.812 -9.008 1.00 22.92 ATOM 2180 CE3 TRP A 274 23.997 67.812 -9.008 1.00 22.72 ATOM 2181 CD1 TRP A 274 23.997 67.812 -9.008 1.00 22.72 ATOM 2181 CD1 TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATOM 2181 CD1 TRP A 274 23.990 68.689 -7.417 1.00 22.01 ATOM 2182 CH2 TRP A 274 23.990 68.689 -7.958 1.00 23.66 ATOM 2181 CD1										23.79
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ATOM 2157 O ARG A 271 14.319 65.211 0.010 1.00 26.81 ATOM 2158 N VAL A 272 15.994 66.702 -0.071 1.00 22.19 ATOM 2159 Q VAL A 272 15.5878 66.857 -1.510 1.00 18.76 ATOM 2160 CB VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2162 CG2 VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2167 CB LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.985 65.397 -5.268 1.00 27.95 ATOM 2171 NZ LYS A 273 16.985 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2174 N TRP A 274 29.843 65.759 -5.268 1.00 25.99 ATOM 2175 CB TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2177 CG TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 23.56 ATOM 2185 CH2 TRP A 274 24.839 65.237 -9.582 1.00 23.56 ATOM 2186 CD1 TRP A 274 23.990 68.689 -7.417 1.00 26.21 ATOM 2181 CD1 TRP A 274 23.990 68.689 -7.417 1.00 23.66 ATOM 2181 CD1 TRP A 274 23.990 68.689 -7.417 1.00 23.56 ATOM 2181 CD1 TRP A 274 23.990 68.689 -7.417 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 65.237 -9.582 1.00 23.56	MOTA	2155	NH2		271					
ATOM 2158 N VAL A 272 15.994 66.702 -0.071 1.00 22.19 ATOM 2159 Q VAL A 272 15.878 66.857 -1.510 1.00 18.76 ATOM 2160 CB VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2162 CG2 VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 27.72 ATOM 2166 CA LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.963 60.740 -5.621 1.00 35.66 ATOM 2170 CE LYS A 273 16.185 59.514 -5.974 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 25.96 ATOM 2174 N TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 23.66 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2181 CD1 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2182 NEI TRP A 274 23.997 67.812 -9.008 1.00 23.56 ATOM 2183 CZ2 TRP A 274 23.997 67.812 -9.008 1.00 23.56 ATOM 2184 CZ3 TRP A 274 23.997 67.812 -9.008 1.00 23.56 ATOM 2184 CZ3 TRP A 274 23.997 67.812 -9.008 1.00 23.56 ATOM 2188 CZ2 TRP A 274 23.997 67.812 -9.008 1.00 23.56 ATOM 2184 CZ3 TRP A 274 23.990 68.689 -7.417 1.00 26.21 ATOM 2184 CZ3 TRP A 274 23.990 68.689 -7.417 1.00 23.56 ATOM 2183 CZ2 TRP A 274 23.990 68.689 -7.417 1.00 23.56 ATOM 2185 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56	ATOM	2156	C	ARG A	271					
ATOM 2159 Q VAL A 272 15.878 66.857 -1.510 1.00 18.76 ATOM 2160 CB VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2162 CG2 VAL A 272 14.340 68.778 -1.107 1.00 15.11 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.89 ATOM 2166 CA LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2169 CD LYS A 273 16.963 60.740 -5.621 1.00 35.66 ATOM 2170 CE LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2171 NZ LYS A 273 17.784 66.653 -5.486 1.00 25.99 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 25.99 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 CB TRP A 274 22.700 67.347 -7.187 1.00 24.01 ATOM 2176 CB TRP A 274 22.970 67.347 -7.187 1.00 24.01 ATOM 2177 CG TRP A 274 22.970 67.347 -7.187 1.00 24.01 ATOM 2178 CD2 TRP A 274 22.997 67.812 -9.008 1.00 24.02 ATOM 2178 CD2 TRP A 274 22.709 68.689 -7.417 1.00 22.21 ATOM 2180 CE3 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2180 CE3 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2180 CE3 TRP A 274 22.709 68.689 -7.417 1.00 28.27 ATOM 2181 CD1 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56	ATOM	2157	0	ARG A	271	14.319				
ATOM 2160 CB VAL A 272 15.878 66.857 -1.510 1.00 18.76 ATOM 2161 CGI VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2162 CG2 VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2163 C CVAL A 272 17.132 66.446 -3.355 1.00 15.11 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.88 ATOM 2166 CB LYS A 273 17.572 63.587 -4.645 1.00 25.88 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 25.99 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 CG TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 20.489 66.616 -6.267 1.00 24.20 ATOM 2177 CG TRP A 274 23.526 66.623 -6.096 1.00 24.20 ATOM 2178 CD2 TRP A 274 23.526 66.623 -6.096 1.00 24.20 ATOM 2178 CD2 TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.997 67.812 -9.008 1.00 21.71 ATOM 2180 CE3 TRP A 274 23.997 67.812 -9.008 1.00 22.08 ATOM 2181 CD1 TRP A 274 23.997 67.812 -9.008 1.00 23.56 ATOM 2183 CZ2 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2183 CZ2 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CZ2 TRP A 274 25.193 66.000 -7.4553 -0.558 1.00 23.56	MOTA	2158	N	VAL A	272	15.994	66.702			
ATOM 2161 CG1 VAL A 272 15.561 68.310 -1.870 1.00 17.63 ATOM 2161 CG1 VAL A 272 15.326 68.446 -3.355 1.00 18.50 ATOM 2162 CG2 VAL A 272 14.340 68.778 -1.107 1.00 15.11 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.89 ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 17.784 66.653 -5.486 1.00 25.96 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 25.96 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 CB TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 24.21 ATOM 2178 CD2 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2180 CE3 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2183 CZ2 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2184 CZ3 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2183 CZ2 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2183 CZ2 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2183 CZ2 TRP A 274 24.739 65.237 -9.582 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.739 65.237 -9.582 1.00 23.56 ATOM 2185 CZ2 TRP A 274 24.739 65.237 -9.582 1.00 27.26		2159	Q	VAL A	272	15.878	66.857	-1.510		
ATCM 2161 CG1 VAL A 272 15.326 68.446 -3.3555 1.00 18.50 ATCM 2162 CG2 VAL A 272 14.340 68.778 -1.107 1.00 15.11 ATCM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATCM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATCM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATCM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.89 ATCM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATCM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATCM 2169 CD LYS A 273 16.963 60.740 -5.621 1.00 35.66 ATCM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATCM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATCM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATCM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 26.05 ATCM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATCM 2175 CB TRP A 274 22.459 66.623 -6.096 1.00 24.20 ATCM 2177 CG TRP A 274 22.459 66.623 -6.096 1.00 24.20 ATCM 2178 CD2 TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATCM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 23.66 ATCM 2180 CE3 TRP A 274 23.997 67.812 -9.008 1.00 25.08 ATCM 2180 CE3 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2180 CE3 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2181 CD1 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2183 CZ2 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2184 CZ3 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2184 CZ3 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2185 CZ2 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2184 CZ3 TRP A 274 23.490 68.979 -8.509 1.00 28.21 ATCM 2185 CZ2 TRP A 274 23.490 68.979 -8.509 1.00 28.22 ATCM 2185 CZ2 TRP A 274 23.490 68.979 -8.509 1.00 28.22 ATCM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATCM 2185 CZ2 TRP A 274 23.490 68.979 -8.509 1.00 28.22 ATCM 2185 CZ2 TRP A 274 23.490 68.979 -8.509 1.00 23.56 ATCM 2186 CZ3 TRP A 274 23.490 66.900 -7.653 1.00 24.09			CB	VAL A	272	15.561	68.310	-1.870	1.00	
ATOM 2162 CG2 VAL A 272 14.340 68.778 -1.107 1.00 15.11 ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.88 ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.572 63.587 -4.645 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 31.66 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 25.96 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2180 CE3 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 23.990 68.689 -7.417 1.00 23.66 ATOM 2183 CZ2 TRP A 274 22.709 68.689 -7.417 1.00 23.56 ATOM 2183 CZ2 TRP A 274 22.709 68.689 -7.417 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 24.839 67.594 -10.089 1.00 23.56			CG1	VAL A	272	15.326	68.446	-3.355	1.00	18.50
ATOM 2163 C VAL A 272 17.132 66.418 -2.248 1.00 25.28 ATOM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.89 ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.666 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2173 O LYS A 273 16.185 59.514 -5.974 1.00 25.96 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.997 67.812 -9.008 1.00 21.71 ATOM 2178 CD2 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2180 CE3 TRP A 274 23.990 68.689 -7.417 1.00 26.21 ATOM 2181 CD1 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2183 CZ2 TRP A 274 23.490 68.699 -7.417 1.00 26.21 ATOM 2184 CZ3 TRP A 274 23.490 68.979 -8.599 1.00 28.27 ATOM 2184 CZ3 TRP A 274 23.490 68.979 -8.599 1.00 28.27 ATOM 2184 CZ3 TRP A 274 23.490 68.979 -8.599 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56						14.340	68.778	-1.107	1.00	15.11
ATOM 2164 O VAL A 272 18.202 66.993 -2.050 1.00 29.40 ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.89 ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.990 68.699 -7.417 1.00 26.21 ATOM 2181 CD1 TRP A 274 24.839 67.594 -10.089 1.00 25.08 ATOM 2183 C22 TRP A 274 24.839 67.594 -10.089 1.00 28.27 ATOM 2184 C23 TRP A 274 24.839 67.594 -10.089 1.00 28.27 ATOM 2184 C23 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 C23 TRP A 274 24.839 67.594 -10.089 1.00 28.27 ATOM 2184 C23 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 C23 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 C23 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 24.839 67.594 -10.089 1.00 23.56							66.418	-2.248	1.00	25.28
ATOM 2165 N LYS A 273 16.985 65.396 -3.092 1.00 27.72 ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.89 ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.4S9 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2180 CE3 TRP A 274 23.997 67.812 -9.008 1.00 25.08 ATOM 2181 CD1 TRP A 274 23.990 68.689 -7.417 1.00 26.21 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.9582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 24.20 ATOM 2185 CH2 TRP A 274 27.105 66.099 -7.653 1.00 24.20 ATOM 2185 CH2 TRP A 274 23.490 68.979 -8.509 1.00 23.56								-2.050	1.00	29.40
ATOM 2166 CA LYS A 273 18.059 64.845 -3.919 1.00 25.89 ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 26.05 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2180 CE3 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2181 CD1 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2182 NEI TRP A 274 23.490 68.699 -7.417 1.00 23.56 ATOM 2183 CZ2 TRP A 274 23.490 68.699 -7.417 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.20 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 24.20								-3.092	1.00	27.72
ATOM 2167 CB LYS A 273 17.572 63.587 -4.645 1.00 27.95 ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 26.05 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.666 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2180 CE3 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 23.990 68.689 -7.417 1.00 26.21 ATOM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.20 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 24.20 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 24.20 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 27.258			_					-3.919	1.00	25.89
ATOM 2168 CG LYS A 273 17.355 62.392 -3.753 1.00 31.66 ATOM 2169 CD LYS A 273 16.404 61.385 -4.376 1.00 35.66 ATOM 2170 CE LYS A 273 16.963 60.740 -5.621 1.00 41.21 ATOM 2171 NZ LYS A 273 16.185 59.514 -5.974 1.00 42.41 ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 26.05 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.990 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.990 68.689 -7.417 1.00 26.21 ATOM 2181 CD1 TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2182 NEI TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.20 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 27.26.21 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 29.23										
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ATOM 2172 C LYS A 273 18.551 65.837 -4.968 1.00 25.96 ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 26.05 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.907 67.812 -9.008 1.00 21.28 ATOM 2181 CD1 TRP A 274 23.907 65.453 -8.498 1.00 25.08 ATOM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.20	ATOM	2170	CE							
ATOM 2173 O LYS A 273 17.784 66.653 -5.486 1.00 26.05 ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09	MOTA	2171	NZ							
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ATOM 2174 N TRP A 274 19.843 65.759 -5.268 1.00 25.99 ATOM 2175 Q TRP A 274 20.489 66.616 -6.267 1.00 24.01 ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2180 CE3 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 24.09		2173	0	LYS A	273	17.784				
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ATOM 2176 CB TRP A 274 21.975 66.623 -6.096 1.00 24.20 ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.990 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09			0	TRP A	274	20.459	66.616	-6.267		
ATOM 2177 CG TRP A 274 22.700 67.347 -7.187 1.00 23.66 ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NE1 TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09							66.623	-6.096		
ATOM 2178 CD2 TRP A 274 23.526 66.762 -8.194 1.00 21.71 ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NE1 TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09							67.347	-7.187	1.00	
ATOM 2179 CE2 TRP A 274 23.997 67.812 -9.008 1.00 21.28 ATOM 2180 CE3 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NE1 TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09								-8.194	1.00	
ATOM 2180 CE3 TRP A 274 23.900 65.453 -8.498 1.00 25.08 ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NEI TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09										21.28
ATOM 2181 CD1 TRP A 274 22.709 68.689 -7.417 1.00 26.21 ATOM 2182 NE1 TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09										
ATOM 2181 CD1 TRP A 274 23.490 68.979 -8.509 1.00 28.27 ATOM 2183 CZ2 TRP A 274 24.839 67.594 -10.089 1.00 23.56 ATOM 2184 CZ3 TRP A 274 24.739 65.237 -9.582 1.00 29.23 ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09										
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ATOM 2185 CH2 TRP A 274 25.193 66.305 -10.367 1.00 24.09 ATOM 2185 CH2 TRP A 274 25.193 66.305 -7.653 1.00 27.26										
ATOM 2185 CR2 TRD 2 274 20 105 65 099 -7 653 1.00 27.26										
ATOM 2186 C TRP A 274 20.105 66.039 -7.633 1.00 27.26	MOTA									
	ATOM	2186	С	TRP A	274	20.105	ללט.סס	- 1,093	1.00	2,.20

									22 63
ATOM	2187	0	TRP A	274	20.357	64.938	-7.970	1.00	32.63
ATOM	2188	N	VAL A	275	19.503	66.964	-8.461	1.00	29.27
	2189	CA	VAL A	275	19.110	66.636	-9.825	1.00	25.56
ATOM				275	17.582	66.606	-9.971	1.00	23.27
MOTA	2190	CB	VAL A				-11.410	1.00	23.05
MOTA	2191	CG1	VAL A	275	17.200	66.358			
MOTA	2192	CG2	VAL A	275	16.993	65.545	-9.073	1.00	25.58
ATOM	2193	С	VAL A	275	19.645	67.760	-10.689	1.00	23.04
	2194	0	VAL A	275	19.194	68.884	-10.573	1.00	27.65
MOTA						67.480	-11.532	1.00	24.79
MOTA	2195	N	ASN A	276	20.627			1.00	23.43
MOTA	2196	CA	ASN A	276	21.172	68.539	-12.372		
ATOM	2197	CB	ASN A	276	22.626	68.262	-12.737	1.00	23.64
ATOM	2198	CG	ASN A	276	23.237	69.374	-13.563	1.00	27.31
			ASN A	276	22.697	70.479	-13.650	1.00	25.48
ATOM	2199	ODl				69.096	-14.156	1.00	32.14
ATOM	2200	ND2	ASN A	276	24.382				
ATOM	2201	С	ASN A	276	20.347	68.732	-13.632	1.00	24.63
MOTA	2202	0	ASN A	276	20.683	68.215	-14.694	1.00	31.02
ATOM	2203	N	ALA A	277	19.244	69.453	-13.499	1.00	25.78
			ALA A	277	18.364	69.719	-14.620	1.00	23.03
MOTA	2204	CA					-14.911	1.00	26.09
MOTA	2205	CB	ALA A	277	17.502	68.507			
MOTA	2206	С	ALA A	277	17.490	70.903	-14.288	1.00	25.78
ATOM	2207	0	ALA A	277	17.232	71.177	-13.119	1.00	27.01
MOTA	2208	N	GLU A	278	17.034	71.602	-15.321	1.00	25.92
			GLU A	278	16.176	72.760	-15.139	1.00	27.97
MOTA	2209	CA				73.616	~16.399	1.00	29.38
MOTA	2210	CB	GLU A	278	16.111			1,00	34.40
ATOM	2211	CG	GLU A	278	17.326	74.473	-16.634		
MOTA	2212	CD	GLU A	278	17.373	75.697	-15.764	1.00	31.39
	2213	OE1	GLU A	278	16.312	76.182	-15.327	1.00	35.93
MOTA			GLU A	278	18.489	76.186	-15.537	1.00	37.93
ATOM	2214	OE2				72.323	-14.767	1.00	30.01
ATOM	2215	С	GLU A	278	14.777			1.00	33.28
MOTA	2216	0	GLU A	278	13.999	71.867	-15.601		
MOTA	2217	N	ARG A	279	14.485	72.419	-13.487	1.00	30.78
ATOM	2218	CA	ARG A	279	13.185	72.069	-12.986	1.00	29.39
		CB	ARG A	279	13.232	70.718	-12.294	1.00	29.88
MOTA	2219					69.606	-13.168	1.00	29.15
MOTA	2220	CG	ARG A	279	13.756			1.00	26.70
MOTA	2221	CD	ARG A	279	12.891	69.382	-14.381		
ATOM	2222	NE	ARG A	279	13.340	68.183	-15.073	1.00	28.42
ATOM	2223	CZ	ARG A	279	13.978	68.185	-16.234	1.00	25.05
		NH1	ARG A	279	14.224	69.324	-16.855	1.00	21.11
MOTA	2224					67.059	-16.716	1.00	26.84
MOTA	2225	NH2	ARG A	279	14.477			1.00	30.45
ATOM	2226	Ç	ARG A	279	12.813	73.163	-12.007		
MOTA	2227	0	ARG A	279	13.645	74.001	-11.643	1.00	28.64
ATOM	2228	N	GLN A	280	11.560	73.147	-11.583	1.00	31.12
		CA	GLN A	280	11.045	74.134	-10.661	1.00	33.15
MOTA	2229					75.182	-11.427	1.00	38.18
MOTA	2230	CB	GLN A	280	10.260			1.00	53.46
MOTA	2231	CG	GLN A	280	9.171	74.580	-12.286		
ATOM	2232	CD	GLN A	280	8.596	75.565	-13.278	1.00	57.41
ATOM	2233	OE1	GLN A	280	9.209	76.593	-13.568	1.00	60.52
			GLN A	280	7.418	75.250	-13.820	1.00	60.10
MOTA	2234	NE2				73.430	-9.679	1.00	30.33
ATOM	2235	C	GLN A	280	10.138				32.02
ATCM	2236	0	GLN A	280	9.602	72.363	-9.975	1.00	
MOTA	2237	N	SER A	281	9.958	74.049	-8.521	1.00	26.28
	2238	CA	SER A	281	9.131	73.510	-7.462	1.00	18.83
MOTA		CB	SER A	281	10.034	72.908	-6.390	1.00	16.21
MOTA	2239					72.175	-5.458	1.00	31.28
MOTA	2240	OG	SER A	281	9.281			1.00	17.91
MOTA	2241	C	SER A	281	8.344	74.691	-6.918		
ATOM	2242	0	SER A	281	8.870	75.796	-6.852	1.00	15.21
ATOM	2243	N	LEU A	282	7.070	74.487	-6.596	1.00	24.14
			LEU A	282	6.239	75.578	-6.068	1.00	24.06
ATOM	2244	CA		282	5.224	76.049	-7.098	1.00	26.03
MOTA	2245	CB	LEU A					1.00	34.69
MOTA	2246	CG	LEU A	282	5. 7 33	76.662	-8.388		
ATOM	2247	CD1	LEU A	282	6.212	75.564	-9.339	1.00	37.28
ATOM	2248	CD2	LEU A	282	4.582	77.421	-9.009	1.00	38.00
		c	LEU A	282	5.480	75.182	-4.814	1.00	23.88
MOTA	2249				4.368	74.652	-4.894	1.00	21.16
MOTA	2250	0	LEU A	282			-3.637	1.00	22.81
MOTA	2251	N	PRO A	283	6.109	75.372			
ATOM	2252	CD	PRO A	283	7.531	75.682	-3.434	1.00	22.38
ATOM	2253	CA	PRO A	283	5.463	75.035	-2.372	1.00	20.82
		CB	PRO A	283	6.661	74.739	-1.472	1.00	18.71
MOTA	2254		PRO A	283	7.663	75.746	-1.928	1.00	19.17
MOTA	2255	CG					-1.847	1.00	17.56
MOTA	2256	С	PRO A	283	4.651	76.192			19.99
ATOM	2257	0	PRO A	283	5.028	77.349	-2.001	1.00	
ATOM	2258	N	PHE A	284	3.496	75.874	-1.282	1.00	18.04
	2259	CA	PHE A	284	2.628	76.869	-0.686	1.00	14.83
MOTA	6437								

110 20/20									
		-	DUE A	284	- 73 1.202	- 76.739	-1.221	1.00	13.11
MOTA	2260	CB	PHE A PHE A	284	0.222	77.695	-0.590	1.00	9.51
MOTA	2261	CD1	PHE A	284	0.361	79.072	-0.757	1.00	7.91
MOTA	2262 2263	CD2	PHE A	284	-0.840	77.218	0.176	1.00	8.25
MOTA	2264	CEI	PHE A	284	-0.546	79.963	-0.172	1.00	9.04
ATOM ATOM	2265	CE2	PHE A	284	-1.755	78.103	0.769	1.00	7.90
ATOM	2266	cz	PHE A	284	-1.607	79.480	0.596	1.00	7.48
ATOM	2267	С	PHE A	284	2.657	76.481	0.777	1.00	15.38
ATOM	2268	0	PHE A	284	2.315	75.351	1.126	1.00	13.28 11.26
ATOM	2269	N	PHE A	285	3.130	77.381	1.625	1.00 1.00	11.08
MOTA	2270	CA	PHE A	285	3.204	77.096	3.045 3.622	1.00	11.89
MOTA	2271	CB	PHE A	285	4.488	77.682 77.103	3.021	1.00	13.37
MOTA	2272	CG	PHE A	285	5.734 6.418	77.103	2.024	1.00	12.80
MOTA	2273	CD1	PHE A	285 285	6.229	75.882	3.458	1.00	14.08
MOTA	2274	CE1	PHE A	285	7.584	77.245	1.477	1.00	16.30
ATOM.	2275 2276	CE2	PHE A	285	7.396	75.347	2.911	1.00	13.47
ATOM	2277	CZ	PHE A	285	8.066	76.030	1.925	1.00	7.59
ATOM	2278	c	PHE A	285	1.985	77.644	3.756	1.00	12.95
ATOM ATOM	2279	ō	PHE A	285	1.781	78.863	3.801	1.00	14.08
ATOM.	2280	N	VAL A	286	1.150	76.746	4.271	1.00	11.34
ATOM	2281	CA	VAL A	286	-0.062	77.158	4.969	1.00	15.20 13.61
ATOM	2282	CB	VAL A	286	-1.128	76.021	4.997	1.00 1.00	11.57
ATOM	2283	CG1	VAL A	286	-2.365	76.467	5.739 3.587	1.00	10.57
ATOM	2284	CG2	VAL A	286	-1.511	75.629	6.384	1.00	18.76
ATOM	2285	Ċ	VAL A	286	0.271	77.647 76.876	7.257	1.00	24.10
MOTA	2286	0	VAL A	286	0.667 0.190	78.955	6.571	1.00	17.87
MOTA	2287	N	ASN A	287	0.190	79.568	7.850	1.00	18.13
ATOM	2288	CA	asn a asn a	287 287	1.570	80.621	7.722	1.00	19.63
MOTA	2289	CB CG	ASN A	287	2.940	80.017	7.427	1.00	17.67
MOTA	2290	OD1	ASN A	287	3.287	78.940	7.907	1.00	15.97
MOTA	2291 2292	ND2	ASN A	287	3.729	80.727	6.644	1.00	19.12
ATOM ATOM	2293	C	ASN A	287	-0.844	80.242	8.229	1.00	21.86
MOTA	2294	ō	ASN A	287	-1.584	80.680	7.347	1.00	26.85
ATOM	2295	N	LEU A	288	-1.148	80.302	9.523	1.00	19.51 14.83
ATOM	2296	CA	LEU A	283	~2.374	80.928	9.979	1.00 1.00	12.62
ATOM	2297	CB	LEU A	288	-2.853	80.254	11.253	1.00	17.68
MOTA	2298	CG	LEU A	288	-2.982	73.741	11.075 12.332	1.00	16.20
MOTA	2299	CD1	LEU A	288	-3.540	78.114 78.428	9.909	1.00	14.63
ATOM	2300	CD2	LEU A	288	-3.883 -2.139	82.414	10.188	1.00	16.91
ATOM	2301	C	LEU A	288 288	-1.218	82.981	9.611	1.00	20.51
MOTA	2302	0	LEU A GLY A	289	-2.974	83.051	10.996	1.00	16.67
ATOM	2303 2304	N CA	GLY A	289	-2.823	84.473	11.240	1.00	15.37
MOTA	2304	C	GLY A	289	-1.831	84.700	12.350	1.00	19.82
ATOM ATOM	2306	ō	GLY A	289	-1.571	83.795	13.130	1.00	22.79
ATOM	2307	N	TYR A	290	-1.342	85.924	12.477	1.00	19.69
ATOM	2308	CA	TYR A	290	-0.354	86.246	13.491	1.00	23.55 22.89
MOTA	2309	CB	TYR A	290	0.058	87.705	13.359	1.00	30.95
ATOM	2310	CG	TYR A	290	1.265	88.073	14.184	1.00 1.00	31.65
ATOM	2311	CD1	TYR A	290	2.558	87.793	13.730 14.481	1.00	32.74
ATOM	2312	CE1	TYR A	290	3.671	88.142 88.710	15.414	1.00	29.60
MOTA	2313	CD2	TYR A	290	1.122 2.228	89.063	16.172	1.00	31.69
ATOM	2314	CE2	TYR A	290	3.494	88.778	15.699	1.00	32.60
ATOM	2315	cz	TYR A TYR A	290 290	4.587	89.149	16.435	1.00	38.35
MOTA	2316	он	TYR A	290	-0.825	85.973	14.912	1.00	28.88
ATOM	2317	с 0	TYR A	290	-0.064	85.469	15.747	1.00	32.22
ATOM	2318	N	ASP A	291	-2.080	86.302	15.180	1.00	32.16
ATOM	2319 2320	CA	ASP A	291	-2.650	86.121	16.505	1.00	34.89
ATOM ATOM	2321	СВ	ASP A	291	-3.621	87.271	16.809	1.00	44.67
ATOM	2322	CG	ASP A	291	-2.907	88.607	17.064	1.00	54.47
ATOM	2323	OD1	ASP A	291	-1.678	88.612	17.294	1.00	62.50 59.68
ATOM	2324	OD2	ASP A		-3.583	89.662	17.057	1.00	59.68 33.13
ATOM	2325	С	ASP A		-3.341	B4.786	16.743	1.00 1.00	36.71
ATOM	2326	0	ASP A		-3.867	84.552	17.828 15.755	1.00	32.93
ATOM	2327	N	SER A		-3.325	83.902	15.755	1.00	33.04
MOTA	2328	CA	SER A		-3.989	82.611 81.892	14.551	1.00	32.62
MOTA	2329	CB	SER A			82.629	13.641	1.00	37.64
MOTA	2330	og G	SER A			81.675	16.933	1.00	33.50
ATOM	2331	C O	SER A			81.310	16.870	1.00	35.88
MOTA	2332	J							

2504	2333	N	VAL A	293	-4.223	81.283	17.889	1.00	35.69
ATCM			VAL A	293	-3.807	80.371	18.936	1.00	33.43
ATCM	2334	CA	VAL A	293	-3.867	81.015	20.333	1.00	28.87
ATOM	2335	CB			-3.244	80.086	21.346	1.00	29.10
MOTA	2336	CG1	VAL A	293		82.350	20.340	1.00	28.79
ATOM	2337	CG2	VAL A	293	-3.157	79.193	18.925	1.00	33.08
ATOM:	2336	С	VAL A	293	-4.754			1.00	33.77
ATOM	2339	0	VAL A	293	-5.971	79.366	18.990		34.36
MOTA	2340	N	ILE A	294	-4.187	78.002	18.790	1.00	
ATOM	2341	CA	ILE A	294	-4.952	76.770	18.784	1.00	33.14
ATOM	2342	CB	ILE A	294	-4.754	76.000	17.458	1.00	33.14
MOTA	2343	CG2	ILE A	294	-5.426	74.629	17.518	1.00	28.09
ATOM	2344	CG1	ILE A	294	-5.318	76.832	16.303	1.00	29.00
ATOM	2345	CD1	ILE A	294	-5.328	76.129	14.973	1.00	30.92
ATOM	2346	С	ILE A	294	-4.476	75.952	19.983	1.00	36.82
ATOM	2347	0	ILE A	294	-3.277	75.882	20.273	1.00	40.13
ATOM	2348	N	ASP A	295	-5.427	75.385	20.710	1.00	37.77
ATOM	2349	CA	ASP A	295	-5.124	74.604	21.889	1.00	36.56
MOTA	2350	СВ	ASP A	295	-6.346	74.499	22.783	1.00	42.24
	2351	CG	ASP A	295	-6.163	75.234	24.071	1.00	50.87
MOTA		OD1	ASP A	295	-6.049	74.565	25.117	1.00	60.02
ATOM	2352	OD2	ASP A	295	-6.092	76.481	24.038	1.00	55.86
ATOM	2353		ASP A	295	-4.655	73.223	21.544	1.00	35.69
ATOM	2354	C	ASP A	295	-5.384	72.453	20.928	1.00	35.08
MOTA	2355	0				72.879	21.955	1.00	35.13
MOTA	2356	N	PRO A	296	-3.431 -2.488	73.736	22.692	1.00	34.11
MOTA	2357	CD	PRO A	296			21.690	1.00	35.32
ATOM	2358	CA	PRO A	296	-2.847	71.563 71.653	22.368	1.00	33.77
MOTA	2359	CB	PRO A	296	-1.478			1.00	35.72
MOTA	2360	CG	PRO A	296	-1.169	73.116	22.339		
MOTA	2361	С	PRO A	296	-3.689	70.463	22.327	1.00	38.35 41.07
ATOM	2362	0	PRO A	296	-4.269	70.653	23.394	1.00	
MOTA	2363	N	PHE A	297	-3.706	69.300	21.697		38.55
ATOM	2364	CA	PHE A	297	-4.455	68.180	22.208	1.00	37.27
MOTA	2365	CB	PHE A	297	-5.877	68.209	21.654	1.00	34.45
ATOM	2366	CG	PHE A	297	-5.957	68.187	20.151	1.00	31.82
MOTA	2367	CD1	PHE A	297	-6.324	67.025	19.475	1.00	30.97
MOTA	2368	CD2	PHE A	297	-5.712	69.339	19.414	1.00	31.48
ATOM	2369	CEl	PHE A	297	-6.445	67.018	18.083	1.00	30.11
ATOM	2370	CE2	PHE A	297	-5.832	69.338	18.023	1.00	29.97
ATOM	2371	CZ	PHE A	297	-6.200	5B.177	17.358	1.00	30.13
ATOM	2372	С	PHE A	297	-3.770	66.887	21,809	1.00	40.88
MOTA	2373	0	PHE A	297	-2.954	66.865	20.891	1.00	43.86
MOTA	2374	N	ASP A	298	-4.064	65.806	22.511	1.00	44.53
ATOM	2375	CA	ASP A	298	-3.466	64.534	22.167	1.00	48.48
ATOM	2376	CB	ASP A	298	-2.590	64.015	23.295	1.00	52.93
MOTA	2377	CG	ASP A	298	-1.808	62.778	22.898	1.00	57.44
MOTA	2378	OD1	ASP A	298	-2.020	62.254	21.778	1.00	54.35
MOTA	2379	OD2	ASP A	298	-0.964	62.333	23.705	1.00	66.50
MOTA	2380	С	ASP A	298	-4.584	63.552	21.907	1.00	50.22
MOTA	2381	0	ASP A	298	-5.215	63.067	22.827	1.00	49.77
ATOM	2382	N	PRO A	299	-4.789	63.199	20.630	1.00	52.46
ATOM	2383	CD	PRO A	299	-4.105	63.730	19.439	1.00	52.72
ATOM	2384	CA	PRO A	299	-5.835	62.266	20.230	1.00	56.64
ATOM	2385	СВ	PRO A	299	-5.663	62.206	18.717	1.00	54.35
ATOM	2386	CG	PRO A	299	-5.165	63.564	18.388	1.00	50.07
ATOM	2387	C	PRO A	299	-5.648	60.898	20.868	1.00	63.86
ATOM	2388	ō	PRO A	299	-6.492	60.011	20.687	1.00	69.53
	2389	N	MG A	300	-4.535	60.712	21.580	1.00	68.69
ATOM	2390	CA	ARG A	300	-4.231	59.449	22.250	1.00	73.13
ATOM		CB	ARG A	300	-2.731	59.153	22.191	1.00	73.05
MOTA	2391	CG	ARG A	300	-2.202	58.825	20.810	1.00	75.18
MOTA	2392	CD	ARG A	300	-0.682	58.842	20.790	1.00	72.55
ATOM	2393		ARG A	300	-0.165	60.144	21.181	1.00	71.35
MOTA	2394	NE CZ	ARG A	300	0.867	60.748	20.595	1.00	71.94
ATOM	2395	CZ	ARG A	300	1.506	60.171	19.579	1.00	73.46
MOTA	2396	NH1		300	1.274	61.934	21.032	1.00	71.10
MOTA	2397	NH2	ARG A			59.414	23.708	1.00	75.43
ATOM	2398	C	ARG A	300	-4.685	58.390	24.374	1.00	80.12
ATOM	2399	0	ARG A	300	-4.552		24.196	1.00	77.10
MOTA	2400	N	GLU A	301	-5.202	60.536 60.596	25.562	1.00	81.37
MOTA	2401	CA	GLU A	301	-5.687		26.331	1.00	82.38
MOTA	2402	CB	GLU A	301	-4.984	61.711	26.422	1.00	89.06
MOTA	2403	CG	GLU A	301	-3.474	61.523 62.004	27.750	1.00	94.30
MOTA	2404	CD	GLU A	301	-2.918 -2.152	63.179	28.115	1.00	97.83
MOTA	2405	OE1	GLU A	301	-3.152	03.173		00	

								1 00	07.36
MOTA	2406	OE2	GLU A	301	-2.241	51.201	28.425	1.00	97.36
ATOM	2407	C	GLU A	301	-7.193	60.781	25.642	1.00	84.64
ATOM	2408	0	GLU A	301	-7.779	51.498	24.835	1.00	83.56
ATOM	2409	N	PRO A	302	-7.849	60.122	26.611	1.00	88.29
	2410	CD	PRO A	302	-7.263	59.114	27.527	1.00	89.03
ATOM						60.201	26.800	1.00	87.98
MOTA	2411	CA	PRO A	302	-9.303			1.00	
MOTA	2412	CB	PRO A	302	-9.521	59.416	28.095		88.81
MOTA	2413	CG	PRO A	302	-8.478	58.337	27.978	1.00	88.81
ATOM	2414	С	PRO A	302	-9.804	61.652	26.925	1.00	86.15
MOTA	2415	0	PRO A	302	-10.737	62.060	26.236	1.00	85.57
MOTA	2416	N	ASN A	303	-9.184	62.425	27.817	1.00	84.86
			ASN A	303	-9.563	63.822	27.985	1.00	85.24
MOTA	2417	CA				64.404	29.254	1.00	89.02
MOTA	2418	CB	ASN A	303	-8.929			1.00	
MOTA	2419	CG	ASN A	303	-9.217	65.900	29.433		93.08
ATOM	2420	OD1	ASN A	303	-8.501	66.589	30.150	1.00	95.61
ATOM	2421	ND2	ASN A	303	-10.242	66.401	28.755	1.00	95.94
ATOM	2422	С	ASN A	303	-9.073	64.602	26.773	1.00	83.46
ATOM	2423	ō	ASN A	303	-9.678	65.601	26.377	1.00	82.51
			GLY A	304	-8.001	64.099	26.169	1.00	82.29
MOTA	2424	N					25.016	1.00	79.23
ATOM	2425	CA	GLY A	304	-7.413	64.745			77.89
ATOM	2426	С	GLY A	304	-6.639	65.945	25.513	1.00	
ATOM	2427	Õ	GLY A	304	-6.503	66.945	24.802	1.00	78.97
ATOM	2428	N	LYS A	305	-6.156	65.855	26.748	1.00	76.87
ATOM	2429	CA	LYS A	305	-5.403	66.938	27.348	1.00	76.76
ATOM	2430	CB	LYS A	305	-5.585	66.962	28.880	1.00	78.46
		CG	LYS A	305	-4.408	66.440	29.691	1.00	82.23
ATOM	2431					67.539	30.519	1.00	85.07
ATOM	2432	CD	LYS A	305	-3.751				89.93
ATOM	2433	CE	LYS A	305	-2.573	66.997	31.311	1.00	
ATOM	2434	NZ	LYS A	305	-2.157	67.917	32.403	1.00	93.14
ATOM	2435	С	LYS A	305	-3.949	66.755	26.972	1.00	73.92
ATOM	2436	0	LYS A	305	-3.474	65.623	26.867	1.00	73.27
ATOM	2437	N	SER A	306	-3.237	67.855	26.797	1.00	72.39
		CA	SER A	306	-1.844	67.787	26.417	1.00	73.15
MOTA	2438				-1.656	68.461	25.061	1.00	72.57
ATOM	2439	CB	SER A	306			25.069	1.60	70.16
ATOM	2440	OG	SER A	306	-2.237	69.762			
ATOM	2441	С	SER A	30€	-0.982	68.474	27.445	1.00	73.60
ATOM	2442	0	SER A	306	-1.481	69.180	28.328	1.00	71.26
MOTA	2443	N	ASP A	307	0.314	68.208	27.363	1.00	76.59
ATOM	2444	CA	ASP A	307	1.231	68.827	28.260	1.00	78.33
ATOM	2445	CB	ASP A	307	2.480	67.891	28.515	1.00	B4.92
			ASP A	307	3.022	€7.239	27.236	1.00	89.57
ATOM	2446	CG				67.902	26.515	1.00	90.72
MOTA	2447	OD1	ASP A	307	3.809		26.956	1.00	90.72
ATOM	2448	OD2	ASP A	307	2.672	66.065			
MOTA	2449	С	ASP A	307	1.734	70.130	27.593	1.00	74.93
MOTA	2450	0	ASP A	307	1.883	71.163	28.254	1.00	73.18
ATOM	2451	N	ARG A	308	1.893	70.072	26.268	1.00	70.05
ATOM	2452	CA	ARG A	308	2.327	71.212	25.471	1.00	64.62
ATOM	2453	СВ	ARG A	308	2.295	70.877	23.986	1.00	64.91
			ARG A	308	3.177	69.738	23.570	1.00	65.23
MOTA	2454	CG				69.720	22,067	1.00	65.31
ATOM	2455	CD	ARG A	308	3.284				68.52
ATOM	2456	NE	ARG A	308	3.889	68.494	21.573	1.00	
MOTA	2457	CZ	ARG A	308	5.145	68.139	21.800	1.00	69.44
MOTA	2458	NH1	ARG A	308	5.939	68.925	22.515	1.00	70.73
ATOM	2459	NH2	ARG A	308	5.596	66.983	21.334	1.00	71.60
ATOM	2460	C	ARG A	308	1.422	72.394	25.695	1.00	60.56
			ARG A	308	0.211	72.243	25.786	1.00	62.91
MOTA	2461	0				73.576	25.721	1.00	58.75
ATOM	2462	N	GLU A	309	2.016				
MOTA	2463	CA	GLU A	309	1.278	74.807	25.937	1.00	59.53
ATOM	2464	CB	GLU A	309	2.155	75. 7 95	26.707	1.00	64.51
MOTA	2465	CG	GLU A	309	2.863	75.195	27.909	1.00	72.73
ATOM	2466	CD	GLU A	309	4.037	76.041	28.375	1.00	78.39
ATOM	2467	OE1	GLU A	309	5.196	75.650	28.107	1.00	80.45
			GLU A	309	3.802	77.091	29.013	1.00	81.42
ATOM	2468	CE2				75.423	24.595	1.00	58.18
MOTA	2469	С	GLU A	309	0.895				56.69
ATOM	2470	0	GLU A	309	1.550	75.172	23.576	1.00	
ATOM	2471	N	PRO A	310	-0.202	76.204	24.566	1.00	57.07
ATOM	2472	CD	PRO A	310	-1.130	76.528	25.662	1.00	58.98
ATOM	2473	CA	PRO A	310	-0.639	76.848	23.325	1.00	54.68
ATOM	2474	СВ	PRO A	310	-1.898	77.610	23.755	1.00	56.45
		CG	PRO A	310	-1.671	77.867	25.214	1.00	57.32
MOTA	2475		PRO A	310	0.456	77.787	22.831	1.00	49.05
ATOM	2476	c				78.437	23.631	1.00	48.09
ATOM	2477	0	PRO A	310	1.136		21.512	1.00	43.40
MOTA	2478	N	LEU A	311	0.617	77.835	22.316	1.00	-3.40

ATOM	2479	CA	LEU A	311	1.626	78.650	20.859	1.00	36.12
ATOM	2480	CB	LEU A	311	2.661	77.726	20.204	1.00	32.22
ATOM	2481	CG	LEU A	311	3.919	78.324	19.578	1.00	31.79
	2482	CD1	LEU A	311	4.582	79.300	20.539	1.00	28.33
ATOM	2483	CD2	LEU A	311	4.862	77.194	19.229	1.00	26.30
ATOM		C	LEU A	311	0.936	79.478	19.793	1.00	32.51
MOTA	2484		LEU A	311	0.300	78.915	18.903	1.00	35.00
MOTA	2485	0			1.012	80.804	19.899	1.00	27.12
ATOM	2486	N	SER A	312			18.894	1.00	26.22
ATOM	2487	CA	SER A	312	0.386	81.654			22.14
ATOM	2488	CB	SER A	312	0.324	83.123	19.339	1.00	
ATOM	2489	OG	SER A	312	1.479	83.859	19.000	1.00	31.44
ATOM	2490	С	SER A	312	1.205	81.464	17.621	1.00	30.09
MOTA	2491	0	SER A	312	2.438	81.349	17.671	1.00	34.62
ATOM	2492	N	TYR A	313	0.526	81.399	16.483	1.00	30.05
ATOM	2493	CA	TYR A	313	1.208	81.164	15.222	1.00	26.78
MOTA	2494	СВ	TYR A	313	0.221	81.101	14.070	1.00	21.90
ATOM	2495	CG	TYR A	313	0.740	80.223	12.968	1.00	23.94
MOTA	2496	CD1	TYR A	313	0.464	78.868	12.972	1.00	20.72
	2497	CEI	TYR A	313	0.991	78.032	12.022	1.00	22.06
ATOM		CD2	TYR A	313	1.555	80.729	11.951	1.00	16.61
MOTA	2498	CE2	TYR A	313	2.091	79.891	10.996	1.00	16.69
ATOM	2499			313	1.792	78.541	11.041	1.00	17.14
ATOM	2500	CZ	TYR A			77.666	10.123	1.00	24.17
MOTA	2501	он	TYR A	313	2.294	82.153	14.895	1.00	25.77
MOTA	2502	С	TYR A	313	2.299			1.00	23.63
ATOM	2503	0	TYR A	313	3.326	81.778	14.334		28.58
ATOM	2504	N	GLY A	314	2.071	83.415	15.238	1.00	
MOTA	2505	CA	GLY A	314	3.053	84.444	14.965	1.00	34.94
ATOM	2506	С	GLY A	314	4.370	84.186	15.674	1.00	37.23
ATOM	2507	0	GLY A	314	5.434	84.453	15.117	1.00	41.94
ATOM	2508	N	ASP A	315	4.301	83.683	16.906	1.00	37.16
ATOM	2509	CA	ASP A	315	5.498	83.388	17.682	1.00	33.44
ATOM	2510	CB	ASP A	315	5.162	83.140	19.157	1.00	37.41
ATOM	2511	CG	ASP A	315	4.707	84.406	19.881	1.00	40.95
MOTA	2512	OD1	ASP A	315	3.906	84.295	20.835	1.00	48.93
MOTA	2513	OD2	ASP A	315	5.147	85.515	19.504	1.00	45.51
MOTA	2514	C	ASP A	315	6.147	82.172	17.074	1.00	28.81
ATOM	2515	ō	ASP A	315	7.357	82.139	16.893	1.00	32.18
ATOM	2516	N	TYR A	316	5.333	81.179	16.746	1.00	26.31
	2517	CA	TYR A	316	5.823	79.963	16.116	1.00	25.28
ATOM	2518	CB	TYR A	316	4.646	79.064	15.709	1.00	23.80
ATOM		CG	TYR A	316	4.986	77.997	14.682	1.00	28.01
ATOM	2519	CD1	TYR A	316	5.604	76.802	15.061	1.00	26.83
ATOM	2520		TYR A	316	5.903	75.810	14.106	1.00	25.18
ATOM	2521	CE1	TYR A	316	4.682	78.177	13.323	1.00	22.23
MOTA	2522	CD2	TYR A	316	4.981	77.194	12.372	1.00	16.07
MOTA	2523	CE2		316	5.586	76.020	12.769	1:00	19.33
MOTA	2524	CZ	TYR A		5.850	75.040	11.843	1.00	22.12
MOTA	2525	03	TYR A	316			14.872	1.00	26.20
ATOM	2526	С	TYR A	316	6.625	80.333	14.766	1.00	23.86
MOTA	2527	0	TYR A	316	7.812	80.010			26.87
ATOM	2528	N	LEU A	317	5.977	81.062	13.966	1.00	
MOTA	2529	CA	LEU A	317	6.579	81.454	12.705	1.00	26.33
ATOM	2530	CB	LEU A	317	5.548	82.112	11.783	1.00	22.99
MOTA	2531	CG	LEU A	317	6.032	82.167	10.334	1.00	17.66
MOTA	2532	CD1	LEU A	317	5.962	80.780	9.722	1.00	16.43
MOTA	2533	CD2	LEU A	317	5.205	83.147	9.549	1.00	13.47
MOTA	2534	С	LEU A	317	7.801	82.340	12.830	1.00	25.42
ATOM	2535	o	LEU A	317	8.781	82.125	12.134	1.00	29.40
ATOM	2536	N	GLN A	318	7.753	83.341	13.696	1.00	26.38
MOTA	2537	CA	GLN A	318	8.891	84.226	13.846	1.00	29.10
	2538	CB	GLN A	318	8.643	85.254	14.933	1.00	34.57
MOTA	2538	œ	GLN A	318	7.722	86.361	14.557	1.00	45.89
MOTA			GLN A	318	7.422	87.230	15.744	1.00	54.11
ATOM	2540	CD	GLN A	318	8.276	87.996	16.198	1.00	60.92
ATOM	2541	OE1			6.224	87.084	16.292	1.00	56.69
MOTA	2542	NE2	GLN A	318		83.429	14.215	1.00	32.19
MOTA	2543	C	GLN A	318	10.114	83.529	13.560	1.00	34.97
ATOM	2544	0	GLN A	318	11.147		15.231	1.00	33.42
MOTA	2545	N	ASN A	319	9.967	82.589	15.711	1.00	38.92
MOTA	2546	CA	ASN A	319	11.076	81.780	17.088	1.00	45.44
MOTA	2547	CB	ASN A	319	10.751	81.192	18.174	1.00	54.83
MOTA	2548	CG	ASN A	319	10.635	82.276	18.502	1.00	56.44
ATOM	2549	OD1		319	11.612	82.952	18.702	1.00	59.48
ATOM	2550	ND2	ASN A	319	9.429	82.470	14.725	1.00	40.03
ATOM	2551	C	ASN A	319	11.506	80.705	A7.743	1.00	

ATOM 2551 N GLY A 320 10.591 N GLY A 320 10.592 11.494 1.00 44.50 ATOM 2555 C GLY A 320 10.591 N GLY A 320 1										
ATOM 1553 N GIY A 320 10.531 80.058 14.100 1.00 39.44 ATOM 2554 CA GIY A 320 10.827 99.022 11.310.100 35.75 ATOM 2555 C GIY A 320 11.611 79.592 11.902 1.00 35.75 ATOM 2556 O GIY A 320 11.611 79.592 11.902 1.00 35.75 ATOM 2557 N LEU A 321 11.270 80.765 11.501 1.00 35.75 ATOM 2558 CA LEU A 321 11.270 80.765 11.415 1.00 34.75 ATOM 2558 CA LEU A 321 11.901 82.583 9.877 1.00 36.767 ATOM 2559 CB LEU A 321 11.901 82.583 9.877 1.00 36.767 ATOM 2550 CB LEU A 321 11.901 82.583 9.877 1.00 36.767 ATOM 2550 CB LEU A 321 11.901 82.583 9.877 1.00 36.767 ATOM 2550 CB LEU A 321 11.901 82.583 9.877 1.00 36.767 ATOM 2551 CB LEU A 321 11.901 82.583 9.877 1.00 36.767 ATOM 2552 CB LEU A 321 11.901 82.583 9.877 1.00 36.767 ATOM 2553 CB LEU A 321 11.901 82.168 9.187 1.00 35.19 ATOM 2564 CB LEU A 321 11.322 31.805 10.757 1.00 44.685 9.407 1.00 36.767 ATOM 2565 N VAL A 322 11.932 31.805 10.757 1.00 44.685 9.407 1.00 36.767 ATOM 2566 CA VAL A 322 11.932 31.805 10.757 1.00 44.685 9.407 1.00 36.767 1.00		2552	0	ASN A	319	12.703	80.502	14.494		44.50
ATOM 2555 C GIY A 320 10.827 79.022 13.130 1.00 13.73 ATOM 2556 C GIY A 320 12.536 78.951 11.471 1.00 37.03 ATOM 2557 N LEU A 321 11.977 80.7851 11.471 1.00 37.03 ATOM 2559 CB LEU A 321 11.977 80.7851 11.471 1.00 37.03 ATOM 2559 CB LEU A 321 11.977 81.393 10.457 1.00 37.03 ATOM 2550 CG LEU A 321 11.977 81.393 10.457 1.00 36.97 ATOM 2560 CG LEU A 321 11.907 81.393 10.457 1.00 36.97 ATOM 2561 CDL LEU A 321 10.191 81.392 81.505 11.00 30.33 ATOM 2562 CC LEU A 321 10.191 81.392 81.505 11.00 30.33 ATOM 2563 CDL LEU A 321 10.191 81.392 81.005 10.757 1.00 44.08 ATOM 2564 C LEU A 321 11.302 81.005 10.757 1.00 44.08 ATOM 2565 C C LEU A 321 11.302 81.005 10.757 1.00 44.08 ATOM 2565 C C LEU A 321 11.302 81.005 10.757 1.00 44.08 ATOM 2566 C C LEU A 321 11.302 81.005 10.757 1.00 44.08 ATOM 2566 C C LEU A 321 11.302 81.005 10.757 1.00 44.08 ATOM 2567 C C VAL A 322 11.581 82.373 11.941 1.00 53.18 ATOM 2566 C C VAL A 322 11.581 82.373 11.941 1.00 53.18 ATOM 2567 C C VAL A 322 11.581 82.373 11.941 1.00 53.18 ATOM 2569 C C VAL A 322 11.582 82.373 11.941 1.00 53.18 ATOM 2569 C C VAL A 322 11.585 81 82.688 12.511 1.00 53.18 ATOM 2570 C VAL A 322 11.585 81 82.688 12.511 1.00 53.18 ATOM 2571 O VAL A 322 11.585 81 82.688 12.511 1.00 53.18 ATOM 2571 O VAL A 322 11.585 81 82.688 12.511 1.00 55.17 ATOM 2579 C VAL B 322 11.585 81 81.685 81.2581 1.00 55.08 ATOM 2571 O VAL A 322 11.585 81 81.585 81 82.588 81 82.5							80.058	14.100		
ANDRE 1555 C CIY A 320 11.511 79.582 11.962 1.00 35.73 ATOR 1555 O GIY A 320 11.512 79.582 11.972 1.00 37.50 ATOR 1555 O GIY A 321 11.270 80.786 11.513 1.00 37.50 ATOR 2558 CA LEU A 321 11.970 80.786 11.513 1.00 37.50 ATOR 2558 CA LEU A 321 11.970 80.786 11.513 1.00 33.6.97 ATOM 2550 CB LEU A 321 31.911 82.530 9.877 1.00 38.18 ATOM 2551 CD LEU A 321 31.911 82.530 9.877 1.00 38.18 ATOM 2561 CD LEU A 321 31.911 82.530 9.877 1.00 38.18 ATOM 2561 CD LEU A 321 31.911 82.530 9.877 1.00 44.68 ATOM 2562 CD LEU A 321 1.00 88.191 1.00 88.191 1.00 ATOM 2563 CD LEU A 321 1.00 88.191 1.00 88.191 1.00 88.700 ATOM 2564 CD LEU A 321 1.392 11.392 11.00 88.191 1.00 46.65 ATOM 2565 N VAL A 322 11.581 22.378 11.941 1.00 49.55 ATOM 2566 CD VAL A 322 11.593 93.617 11.941 1.00 93.519 ATOM 2566 CD VAL A 322 11.939 93.617 11.941 1.00 93.519 ATOM 2567 CD VAL A 322 11.939 93.617 11.941 1.00 93.53 ATOM 2569 COZ VAL A 322 11.939 93.617 11.00 55.17 ATOM 2570 C VAL A 322 11.695 93.617 11.00 55.17 ATOM 2570 C VAL A 322 11.695 93.617 11.00 55.17 ATOM 2571 C VAL A 322 11.695 91.77 ATOM 2572 C VAL A 322 11.939 11.20 11.00 55.17 ATOM 2573 C C VAL A 322 11.939 11.20 11.00 55.17 ATOM 2577 C SER A 323 15.146 98.458 12.479 11.00 55.17 ATOM 2577 C SER A 323 15.146 98.458 12.479 11.00 55.17 ATOM 2577 C SER A 323 15.480 78.958 11.469 11.00 55.17 ATOM 2577 C SER A 323 16.93 77.644 12.551 1.00 55.84 ATOM 2577 C SER A 323 16.93 77.644 12.551 1.00 55.84 ATOM 2577 C SER A 323 16.93 77.644 12.551 1.00 55.84 ATOM 2578 N G SER A 323 16.93 77.644 12.551 1.00 55.84 ATOM 2579 C C SER A 323 16.93 77.958 11.959 11.00 55.84 ATOM 2579 C C SER A 323 16.93 77.959 12.940 1.00 55.84 ATOM 2579 C C SER A 323 16.93 77.959 12.940 1.00 55.84 ATOM 2579 C C SER A 323 16.93 77.959 12.940 1.00 55.84 ATOM 2579 C C SER A 323 16.93 77.959 12.940 1.00 55.84 ATOM 2579 C C SER A 323 16.93 77.959 12.940 1.00 55.84 ATOM 2580 C C SER A 323 16.93 88.859 1.00 52.73 ATOM 2580 C C SER A 323 16.93 88.859 1.00 52.73 ATOM 2580 C C SER A 323 16.93 88.859 1.00 52.73 ATOM 2580 C C SER A 327 19.958 8							79.022	13.130	1.00	
ANDRE							79.582	11 .962	1.00	
ATOM 2555 CA LEU A 321 11.9270 80.786 11.510 1.00 34.76 ATOM 2555 CB LEU A 321 11.9270 82.583 9.877 1.00 36.97 ATOM 2560 CG LEU A 321 9.901 82.168 9.187 1.00 36.27 ATOM 2561 CD1 LEU A 321 9.901 82.168 9.187 1.00 36.28 ATOM 2562 CD2 LEU A 321 9.901 82.168 9.187 1.00 36.28 ATOM 2563 C LEU A 321 10.180 81.100 81.100 81.100 84.69 ATOM 2564 O LEU A 321 10.180 81.100 81.100 81.100 84.69 ATOM 2565 C LEU A 321 10.180 81.100 81.100 81.100 84.69 ATOM 2565 C LEU A 321 13.582 81.805 10.953 1.00 46.65 ATOM 2566 C LEU A 321 13.582 81.805 10.953 1.00 46.65 ATOM 2566 C LEU A 321 13.939 82.806 12.345 1.00 53.83 ATOM 2567 C LEU A 321 13.939 82.806 12.345 1.00 53.83 ATOM 2567 C LEU A 322 13.945 84.767 13.615 1.00 53.83 ATOM 2567 C LEU A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2567 C LEU A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2567 C LEU A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2567 C LEU A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 53.83 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 84.767 13.615 1.00 54.33 ATOM 2579 C VAL A 322 13.959 83.617 1.00 54.35 ATOM 2579 C VAL A 322 13.959 84.765 10.00 54.75 ATOM 2579 C VAL A 322 13.959 84.765 10.00 54.75 ATOM 2579 C VAL A 322 13.959 84.765 10.00 54.75 ATOM 2579 C VAL A 322 13.616 13.77 ATOM 2589 C C VAL A 324 14.699 80.457 1.00 55.60 ATOM 2589 C C VAL A 324 14.699 80.457 1.00 55.60 ATOM 2589 C C VAL A 322 13.60 64 65.50 65.00 74.00 65.50 ATOM 2589 C C VAL A 322 13.60 64 65.50 65.00 74.00 65.50 ATOM 2589 C C VAL A 322 13.60 64 6								11.471	1.00	37.50
ATOM 2555 CA LEU A 321 11.967 81.393 10.415 1.00 39.63 ATOM 2550 CB LEU A 321 11.196 22.583 9.877 1.00 38.18 ATOM 2560 CG LEU A 321 9.271 33.392 8.570 1.00 38.18 ATOM 2561 CD LEU A 321 9.271 33.392 8.570 1.00 38.18 ATOM 2561 CD LEU A 321 11.591 81.00 8.134 1.00 45.52 ATOM 2563 C LEU A 321 11.592 81.506 9.187 1.00 46.05 ATOM 2564 CD LEU A 321 11.4287 81.506 3.9551 1.00 46.05 ATOM 2566 CA VAL A 322 11.581 82.378 11.506 3.951 1.00 46.05 ATOM 2566 CA VAL A 322 11.581 82.378 11.506 3.951 1.00 46.05 ATOM 2566 CA VAL A 322 14.593 82.606 11.507 11.605 1.00 53.89 ATOM 2566 CG VAL A 322 14.593 82.607 11.5615 1.00 53.89 ATOM 2569 CG VAL A 322 11.588 82.478 11.565 1.00 53.89 ATOM 2569 CG VAL A 322 11.588 82.478 11.565 1.00 55.17 ATOM 2567 CE VAL A 322 11.588 82.478 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.478 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.17 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.18 ATOM 2571 C C VAL A 322 11.588 82.498 11.569 1.00 55.18 ATOM 2570 C VAL A 322 11.588 82.498 11.569 1.00 55.18 ATOM 2571 C C VAL A 322 11.589 82.498 11.569 1.00 55.18 ATOM 2571 C C VAL A 322 11.589 82.498 11.569 1.00 55.18 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.64 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.64 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.64 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.64 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.68 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.68 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.68 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.68 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.68 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00 55.68 ATOM 2571 C C VAL A 322 11.594 79.307 12.540 1.00								11. 530	1.00	34.76
ATOM 2588 CB LEU A 321 11.191 82.583 9.877 1.00 36.97 ATOM 2560 CG LEU A 321 9.901 82.568 9.187 1.00 38.13 ATOM 2561 CG LEU A 321 9.901 82.568 9.187 1.00 38.33 ATOM 2562 CG LEU A 321 10.181 81.108 8.134 1.00 35.39 ATOM 2563 C LEU A 321 10.181 81.108 8.134 1.00 35.39 ATOM 2563 C LEU A 321 10.281 81.005 10.757 1.00 44.08 ATOM 2565 C LEU A 321 13.581 82.378 11.941 1.00 49.49 ATOM 2566 CA VAL A 322 14.923 82.806 3.953 1.00 44.08 ATOM 2566 CA VAL A 322 14.923 82.806 12.345 1.00 53.83 ATOM 2566 CA VAL A 322 14.935 83.617 11.671 1.00 53.83 ATOM 2567 CE VAL A 322 14.935 83.617 11.671 1.00 53.83 ATOM 2568 CG1 VAL A 322 13.546 84.767 11.615 1.00 55.187 ATOM 2570 C VAL A 322 15.694 81.646 31.10 1.00 54.131 ATOM 2571 O VAL A 322 15.694 81.646 31.2447 11.00 55.17 ATOM 2573 C VAL A 322 17.104 81.4698 12.2473 1.00 55.17 ATOM 2573 C VAL A 322 17.104 81.4698 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.646 12.2473 1.00 55.16 ATOM 2573 C VAL A 322 17.004 81.676 12.2473 1.00 55.16 ATOM 2574 C VAL A 322 17.004 81.676 12.2473 1.00 55.16 ATOM 2575 C VAL A 322 17.004 81.676 12.2473 1.00 55.16 ATOM 2576 C VAL A 322 17.004 81.676 12.2473 1.00 55.16 ATOM 2577 C VAL A 322 17.004 81.676 12.2473 1.00 55.16 ATOM 2578 C VAL A 322 17.004 81.676 12.2473 1.00 55.16 ATOM 2578 C VAL A 322 17.004 81.6775 12.2473 1.00 55.16 ATOM 2579 C VAL A 322 17.006 77.666 11.00 55.164 ATOM 2579 C VAL A 322 17.006 77.666 11.00 55.164 ATOM 2579 C VAL A 322 17.006 81.006 77.866 11.00 55.164 ATOM 2580 C C LEU A 324 11.579 79.866 10.522 1.00 55.64 ATOM 2580 C C LEU A 324 11.7677 79.928 81.667 1.00 55.764 ATOM 2580 C C LEU A 324 11.7677 79.928 81.667 1.00 55.764 ATOM 2580 C C LEU A 3	ATOM							10.415	1.00	39.63
ATOM 2599 CG LEU A 321 9-901 82.168 9.187 1.00 38.18 ATOM 2501 LEU A 321 9-271 83.392 8.570 1.00 38.13 ATOM 2501 CG LEU A 321 9.271 83.392 8.570 1.00 38.33 ATOM 2501 CG LEU A 321 10.181 81.108 8.134 1.00 35.135 ATOM 2501 CG LEU A 321 11.287 81.606 3.953 1.00 44.08 ATOM 2501 CG LEU A 321 11.287 81.606 3.953 1.00 46.65 ATOM 2505 CG LEU A 321 11.4287 81.606 3.953 1.00 46.65 ATOM 2506 CA VAL A 322 11.4923 82.006 12.345 1.00 53.135 ATOM 2507 CG VAL A 322 14.923 82.006 12.345 1.00 53.135 ATOM 2508 CG VAL A 322 14.923 82.606 12.345 1.00 53.135 ATOM 2508 CG VAL A 322 14.693 83.617 11.671 1.00 55.171 ATOM 2508 CG VAL A 322 14.693 83.617 11.672 11.00 55.171 ATOM 2509 CG VAL A 322 14.693 83.617 11.673 11.00 55.171 ATOM 2509 CG VAL A 322 17.394 80.452 12.511 1.00 55.171 ATOM 2509 CG VAL A 322 17.394 80.452 12.511 1.00 55.171 ATOM 2509 CG VAL A 322 17.394 80.452 12.511 1.00 55.171 ATOM 2570 C VAL A 322 17.394 80.452 12.511 1.00 55.161 ATOM 2571 O VAL A 322 17.394 80.452 12.511 1.00 55.61 ATOM 2571 O VAL A 323 11.254 79.309 12.940 1.00 55.61 ATOM 2572 N SER A 323 11.254 79.309 12.940 1.00 55.61 ATOM 2571 O SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2571 O SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2577 O SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2577 O SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2578 N SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.68 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.80 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.80 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.80 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.80 ATOM 2579 C SER A 323 11.499 77.644 12.551 1.00 55.80 ATOM 2579 C SER A 323 11.499 7	MOTA								1.00	36.97
ATOM 2560 CD LEU A 321 9-271 83.392 8.570 1.00 38.33 ATOM 2561 CD LEU A 321 9.271 83.392 8.570 1.00 38.33 ATOM 2562 CD LEU A 321 10.181 81.108 8.134 1.00 315.39 ATOM 2563 CD LEU A 321 10.181 81.108 8.134 1.00 44.605 ATOM 2564 CD LEU A 321 11.40.287 81.605 10.757 1.00 44.605 ATOM 2565 CD LEU A 321 11.40.287 81.605 0.9531 1.00 44.605 ATOM 2566 CD VAL A 322 14.932 82.806 12.345 1.00 53.83 ATOM 2568 CG1 VAL A 322 14.938 82.806 11.0451 1.00 53.83 ATOM 2568 CG1 VAL A 322 11.945 84.767 11.615 1.00 53.83 ATOM 2568 CG1 VAL A 322 11.945 84.767 11.615 1.00 53.83 ATOM 2569 CG2 VAL A 322 11.945 81.606 11.045 55.08 ATOM 2570 C VAL A 322 11.945 81.606 11.00 55.181 ATOM 2571 O VAL A 322 11.945 81.645 11.511 1.00 59.46 ATOM 2573 C VAL A 322 11.945 81.645 11.511 1.00 59.46 ATOM 2573 C VAL A 322 11.945 81.645 11.511 1.00 59.46 ATOM 2573 CA SER A 323 16.275 80.453 11.511 1.00 59.46 ATOM 2573 C SER A 323 16.254 79.096 11.468 11.00 59.46 ATOM 2573 C SER A 323 16.254 79.096 11.468 11.00 59.46 ATOM 2574 CB SER A 323 15.478 80.453 11.594 12.551 1.00 52.98 ATOM 2576 C SER A 323 14.513 78.955 11.616 1.00 54.49 ATOM 2577 N S LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2577 N S LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2578 C SER A 323 14.579 79.366 8.017 1.00 59.67 ATOM 2580 CB LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2581 C LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2583 C CB LEU A 324 16.197 79.566 8.017 1.00 59.67 ATOM 2584 C LEU A 324 16.197 79.366 8.017 1.00 59.67 ATOM 2589 C CB LEU A 324 16.759 80.431 6.995 1.00 64.55 ATOM 2589 C CB LEU A 324 17.697 80.431 6.995 1.00 52.73 ATOM 2589 C CB LEU A 324 17.697 80.431 6.995 1.00 52.73 ATOM 2589 C CB LEU A 324 17.697 80.431 6.995 1.00 52.73 ATOM 2589 C CB LEU A 324 17.697 80.431 6.995 1.00 52.73 ATOM 2589 C CB LEU A 324 17.697 80.431 6.995 1.00 52.73 ATOM 2589 C CB LEU A 324 17.697 80.458 80.597 1.00 55.74 ATOM 2589 C CB LEU A 324 17.697 80.458 80.597 1.00 55.76 ATOM 2589 C CB LEU A 324 17.899 81.695 1.00 59.58 ATOM 2589 C CB LEU A 324 17.899 81.695 1.00 59.58 ATOM 2589 C	MOTA								1.00	38.18
ATOM 2561 CD1 LUT A 321 30.491 81.109 8.134 1.00 35.195 ATOM 2563 C LUT A 321 30.491 81.109 8.134 1.00 35.195 ATOM 2563 C LUT A 321 13.5382 81.005 10.757 1.00 44.08 ATOM 2564 O LUT A 321 14.287 81.606 9.953 1.00 46.65 ATOM 2565 N VAL A 322 14.992 82.006 12.345 1.00 53.89 ATOM 2567 C VAL A 322 14.993 83.617 11.671 1.00 53.89 ATOM 2569 C VAL A 322 14.993 83.617 11.671 1.00 53.89 ATOM 2569 C VAL A 322 14.993 83.617 11.671 1.00 53.89 ATOM 2569 C VAL A 322 14.698 82.698 14.869 1.00 55.17 ATOM 2570 N VAL A 322 14.698 82.698 14.869 1.00 55.17 ATOM 2571 O VAL A 322 11.094 81.864 12.511 1.00 54.11 ATOM 2571 O VAL A 322 11.094 81.848 12.478 1.00 59.46 ATOM 2570 N SER A 323 15.548 79.309 12.930 1.00 59.46 ATOM 2573 C SER A 323 15.548 79.309 12.930 1.00 59.46 ATOM 2573 C SER A 323 15.548 79.309 12.930 1.00 59.46 ATOM 2575 O SER A 323 15.480 79.096 13.468 1.00 55.69 ATOM 2576 C SER A 323 15.654 79.309 12.930 1.00 52.68 ATOM 2577 O SER A 323 16.654 79.309 12.930 1.00 52.68 ATOM 2578 O SER A 323 16.548 79.309 12.930 1.00 52.68 ATOM 2579 C SER A 323 16.691 78.555 11.568 1.00 54.49 ATOM 2579 C SER A 323 16.691 78.555 11.568 1.00 54.49 ATOM 2579 C SER A 323 16.504 79.309 13.468 1.00 54.49 ATOM 2579 C SER A 323 16.504 79.309 13.468 1.00 54.49 ATOM 2579 C SER A 323 16.00 79.936 8.007 1.00 56.10 ATOM 2579 C SER A 323 18.061 79.936 8.007 1.00 56.10 ATOM 2579 C SER A 322 18.00 79.936 8.007 1.00 56.10 ATOM 2580 C D LUD A 324 15.799 80.411 6.945 1.00 54.72 ATOM 2581 C LUD A 324 15.799 80.411 6.945 1.00 54.72 ATOM 2581 C LUD A 324 15.899 79.546 8.629 1.00 52.73 ATOM 2581 C LUD A 324 15.899 79.546 8.690 9.116 6.945 1.00 55.76 ATOM 2580 C D LUD A 324 15.899 79.556 1.7666 1.00 57.73 ATOM 2580 C D LUD A 324 17.696 80.997 1.00 50.472 ATOM 2580 C D LUD A 324 17.696 80.997 1.00 50.472 ATOM 2580 C D LUD A 324 17.696 80.997 1.00 50.472 ATOM 2580 C D LUD A 324 17.696 80.997 1.00 50.472 ATOM 2580 C D LUD A 324 17.696 80.997 1.00 50.908 1.00 55.73 ATOM 2580 C D LUD A 324 17.696 80.997 1.00 50.56 1.00 50.472 ATOM 2580 C D LUD A 324 17.696 80.997 1.0	MOTA	2560								38.33
ATOM 2563 C C LEU A 321 13.582 81.005 10.757 1.00 44.08 ATOM 2564 O LEU A 321 13.582 81.005 9.953 1.00 44.08 ATOM 2565 N VAL A 322 13.581 82.773 11.941 1.00 49.49 ATOM 2566 CA VAL A 322 14.923 82.006 12.345 1.00 53.83 ATOM 2566 CA VAL A 322 14.923 83.617 13.615 1.00 53.83 ATOM 2566 CA VAL A 322 14.923 83.617 13.615 1.00 53.83 ATOM 2567 CQ VAL A 322 14.923 83.617 13.615 1.00 53.83 ATOM 2568 CQ VAL A 322 14.923 83.617 13.615 1.00 55.18 ATOM 2569 CQ VAL A 322 14.923 83.617 13.615 1.00 55.18 ATOM 2570 C VAL A 322 15.894 91.645 12.511 1.00 55.17 ATOM 2570 C VAL A 322 15.894 91.645 12.511 1.00 55.17 ATOM 2570 C VAL A 322 17.104 81.848 12.478 1.00 59.461 ATOM 2571 CA SER A 323 15.788 80.452 12.773 1.00 52.61 ATOM 2571 CA SER A 323 15.788 80.452 12.773 1.00 52.61 ATOM 2577 C SER A 323 15.780 80.452 12.773 1.00 52.61 ATOM 2577 O SER A 323 15.949 77.644 12.551 1.00 52.63 ATOM 2577 O SER A 323 16.913 78.965 11.616 1.00 54.45 ATOM 2579 N LEU A 324 16.194 79.186 10.522 1.00 55.80 ATOM 2579 N LEU A 324 16.194 79.186 10.522 1.00 55.80 ATOM 2579 N LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2580 CB LEU A 324 11.833 79.956 8.019 1.00 56.10 ATOM 2580 CB LEU A 324 11.599 77.644 12.551 1.00 52.83 ATOM 2580 CB LEU A 324 11.833 79.956 8.019 1.00 56.10 ATOM 2581 C LEU A 324 11.837 79.956 8.027 1.00 56.10 ATOM 2580 CB LEU A 324 11.589 79.8661 9.207 1.00 56.10 ATOM 2580 CB LEU A 324 11.699 79.646 5.755 1.00 55.86 ATOM 2580 CB LEU A 324 11.699 79.666 1.00 57.85 ATOM 2580 CB LEU A 324 11.699 79.866 1.00 50.43 ATOM 2580 CB LEU A 324 11.699 79.956 8.019 1.00 64.65 ATOM 2580 CB LEU A 324 11.699 79.644 12.551 1.00 55.66 ATOM 2580 CB LEU A 324 11.699 79.866 8.1090 71.00 56.10 ATOM 2580 CB LEU A 324 11.699 79.866 8.1090 71.00 56.10 ATOM 2580 CB LEU A 324 11.699 79.866 8.1090 71.00 56.10 ATOM 2580 CB LEU A 324 11.699 79.956 8.019 1.00 64.55 ATOM 2580 CB LEU A 324 11.699 79.956 8.019 1.00 64.55 ATOM 2580 CB LEU A 324 11.699 79.956 8.019 1.00 65.55 ATOM 2580 CB LEU A 324 11.699 79.956 8.019 1.00 65.55 ATOM 2580 CB LEU A 324 11.699 79.956 8.019	MOTA									35.19
ATOM 2563 C LEU A 321 14.227 13.606 9.953 1.00 46.655 ATOM 2566 CA VAL A 322 13.606 9.953 1.00 45.65 ATOM 2566 CA VAL A 322 13.627 31.1941 1.00 53.83 ATOM 2566 CA VAL A 322 13.945 82.806 12.345 1.00 53.89 ATOM 2568 CG1 VAL A 322 13.945 84.767 13.615 1.00 53.89 ATOM 2568 CG1 VAL A 322 13.945 84.767 13.615 1.00 53.89 ATOM 2568 CG2 VAL A 322 13.945 84.767 13.615 1.00 55.17 ATOM 2569 CG2 VAL A 322 15.894 81.695 12.531 1.00 55.17 ATOM 2571 0 VAL A 322 15.894 81.695 12.531 1.00 54.13 ATOM 2572 N SER A 323 15.178 81.695 12.773 1.00 52.61 ATOM 2573 CA SER A 323 15.178 80.452 12.773 1.00 52.61 ATOM 2573 CA SER A 323 15.480 78.096 13.468 1.00 53.89 ATOM 2574 CB SER A 323 15.480 78.096 13.468 1.00 53.69 ATOM 2575 OG SER A 323 16.913 78.965 11.616 1.00 54.35 ATOM 2578 N LEU A 324 16.725 78.965 11.616 1.00 54.63 ATOM 2578 N LEU A 324 16.725 78.861 9.522 1.00 55.08 ATOM 2579 CA LEU A 324 16.725 78.861 9.522 1.00 56.10 ATOM 2580 CB LEU A 324 16.725 78.861 9.522 1.00 56.10 ATOM 2580 CB LEU A 324 11.679 79.166 10.552 1.00 55.08 ATOM 2580 CB LEU A 324 11.679 79.166 10.552 1.00 56.10 ATOM 2581 CD LEU A 324 11.679 79.166 10.552 1.00 56.10 ATOM 2583 CD LEU A 324 11.679 79.166 10.552 1.00 56.10 ATOM 2583 CD LEU A 324 11.679 79.166 10.552 1.00 56.10 ATOM 2583 CD LEU A 324 11.679 79.166 10.552 1.00 56.10 ATOM 2583 CD LEU A 324 11.679 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.679 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.679 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.689 79.385 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.85 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.856 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.856 1.00 67.856 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.856 1.00 67.856 ATOM 2583 CD LEU A 324 11.699 79.856 1.00 67.	ATOM	2562								
ATOM 2564 O LEU A 321 14.20 12.378 11.941 1.00 49.49, ATOM 2566 CA VAL A 322 13.551 32.378 11.941 1.00 49.49, ATOM 2566 CA VAL A 322 14.933 32.806 12.145 1.00 53.83 ATOM 2567 CP VAL A 322 14.933 32.806 12.145 1.00 53.83 ATOM 2569 CG2 VAL A 322 14.936 84.767 13.615 1.00 53.83 ATOM 2569 CG2 VAL A 322 14.898 84.767 13.615 1.00 55.17 ATOM 2570 C VAL A 322 14.898 82.698 14.869 1.00 55.17 ATOM 2571 C VAL A 322 17.104 81.848 12.478 1.00 59.461 ATOM 2571 C VAL A 322 17.104 81.848 12.478 1.00 59.461 ATOM 2572 N SER A 323 15.894 81.645 12.511 1.00 59.461 ATOM 2573 CA SER A 323 15.978 80.452 12.773 1.00 59.461 ATOM 2573 CA SER A 323 15.254 79.309 13.468 1.00 59.661 ATOM 2573 CA SER A 323 14.499 77.644 12.551 1.00 55.08 ATOM 2573 CO SER A 323 14.499 77.644 12.551 1.00 55.08 ATOM 2573 CO SER A 323 16.961 78.655 11.616 1.00 55.08 ATOM 2575 CO SER A 323 16.961 78.523 11.584 1.00 55.08 ATOM 2577 C SER A 323 18.961 78.523 11.584 1.00 55.84 ATOM 2578 N LEU A 324 16.795 78.861 9.207 1.00 56.10 ATOM 2579 CA LEU A 324 16.795 78.861 9.207 1.00 56.10 ATOM 2581 CG LEU A 324 16.795 78.861 9.207 1.00 56.10 ATOM 2582 CD1 LEU A 324 16.795 79.396 8.027 1.00 56.10 ATOM 2582 CD1 LEU A 324 16.795 79.396 8.027 1.00 56.10 ATOM 2583 CD2 LEU A 324 17.696 81.050 9.116 6.945 1.00 57.84 ATOM 2589 CD2 LEU A 324 17.697 80.431 6.945 1.00 57.85 ATOM 2589 CD2 LEU A 324 17.697 80.431 6.945 1.00 57.85 ATOM 2589 CD2 LEU A 325 13.107 79.536 6.077 1.00 56.10 ATOM 2589 CD2 LEU A 325 13.107 79.536 6.057 1.00 57.55 ATOM 2589 CD2 LEU A 325 13.107 79.536 7.555 1.00 66.536 ATOM 2589 CD2 LEU A 325 13.107 79.536 6.452 1.00 67.86 ATOM 2589 CD2 LEU A 325 13.107 79.536 6.452 1.00 67.86 ATOM 2580 CD3 LEU A 325 13.107 79.536 6.452 1.00 67.86 ATOM 2589 CD3 LEU A 325 13.107 79.536 6.452 1.00 67.86 ATOM 2599 CD3 LEU A 325 13.107 79.536 6.452 1.00 67.86 ATOM 2590 CD3 LEU A 325 13.107 79.536 6.452 1.00 67.86 ATOM 2590 CD3 LEU A 325 10.00 60.452 79.646 5.969 1.00 66.536 ATOM 2590 CD3 LEU A 325 10.00 60.452 79.646 5.969 1.00 66.01 ATOM 2590 CD3 LEU A 325 10.00 60.452 79.646 5.96	ATOM	2563	C							
ATOM 2565 N VAL A 322 14.923 82.806 12.345 1.00 53.89 ATOM 2566 CA VAL A 322 14.923 82.806 12.345 1.00 53.89 ATOM 2567 CP VAL A 322 14.939 82.806 12.345 1.00 53.89 ATOM 2568 CG1 VAL A 322 14.939 82.806 12.345 1.00 53.89 ATOM 2569 CG2 VAL A 322 14.695 82.698 14.869 1.00 55.17 ATOM 2570 C VAL A 322 15.894 81.645 12.511 1.00 55.17 ATOM 2571 O VAL A 322 17.104 81.886 12.511 1.00 55.17 ATOM 2571 O VAL A 322 15.894 81.645 12.511 1.00 55.13 ATOM 2572 N SER A 323 15.368 80.452 12.773 1.00 52.61 ATOM 2573 CA SER A 323 16.254 79.309 12.940 1.00 52.61 ATOM 2574 CB SER A 323 16.254 79.309 12.940 1.00 55.68 ATOM 2575 C SER A 323 16.254 79.309 12.940 1.00 55.68 ATOM 2576 C SER A 323 16.254 79.309 12.940 1.00 55.68 ATOM 2577 N SER A 323 16.913 79.956 11.616 1.00 54.49 ATOM 2577 O SER A 323 16.913 79.956 11.616 1.00 55.68 ATOM 2578 N LEU A 324 16.919 79.166 10.522 1.00 55.66 ATOM 2578 N LEU A 324 16.725 78.861 9.207 1.00 55.86 ATOM 2578 N LEU A 324 15.996 79.166 10.522 1.00 55.86 ATOM 2580 CB LEU A 324 11.679 79.166 10.522 1.00 55.86 ATOM 2580 CB LEU A 324 11.679 79.166 10.522 1.00 55.70 ATOM 2580 CB LEU A 324 11.697 79.928 8.229 1.00 52.73 ATOM 2580 CB LEU A 324 11.697 79.928 8.229 1.00 52.73 ATOM 2580 CB LEU A 324 11.697 79.928 8.027 1.00 55.610 ATOM 2580 CB LEU A 324 11.697 79.928 8.029 1.00 52.73 ATOM 2580 CB LEU A 324 11.697 79.928 8.625 1.00 57.85 ATOM 2580 CB LEU A 324 17.696 81.000 9.116 1.00 54.73 ATOM 2580 CB LEU A 324 17.696 81.000 9.116 1.00 55.55 ATOM 2580 CB LEU A 324 17.697 79.928 8.625 1.00 57.85 ATOM 2580 CB LEU A 324 17.697 79.928 8.625 1.00 64.55 ATOM 2580 CB LEU A 325 19.07 80.428 6.910 1.00 65.55 ATOM 2580 CB LEU A 325 19.07 80.428 6.910 1.00 65.55 ATOM 2580 CB LEU A 325 19.07 80.428 6.910 1.00 65.55 ATOM 2580 CB LEU A 325 19.808 80.957 5.110 1.00 65.36 ATOM 2580 CB LEU A 325 19.808 80.957 5.110 1.00 65.36 ATOM 2580 CB LEU A 325 19.808 80.957 5.110 1.00 65.36 ATOM 2580 CB LEU A 325 19.808 80.957 5.110 1.00 65.36 ATOM 2580 CB LEU A 325 19.808 80.957 5.110 1.00 65.36 ATOM 2580 CB LEU A 325 19.808 80.957 5.10	ATOM	2564	0	LEU A						
ATOM 2566 CA VALA 3 222 14.933 83.617 13.673 1.00 53.89 ATOM 2568 CG1 VALA 3 222 14.933 83.617 13.673 1.00 53.89 ATOM 2568 CG1 VALA 3 222 13.945 84.767 13.655 1.00 55.15 ATOM 2569 CG2 VALA 3 222 15.694 81.665 12.511 1.00 55.15 ATOM 2570 C VALA 3 222 15.694 81.695 12.511 1.00 55.15 ATOM 2570 C VALA 3 222 15.694 81.695 12.511 1.00 55.15 ATOM 2571 O VALA 3 222 15.694 81.695 12.511 1.00 59.46 ATOM 2572 N SER A 223 16.576 79.109 12.947 1.00 59.46 ATOM 2573 CA SER A 223 16.554 79.109 12.947 1.00 59.616 ATOM 2574 CB SER A 223 16.554 79.109 12.947 1.00 59.616 ATOM 2575 O SER A 223 16.913 76.965 13.468 1.00 55.08 ATOM 2576 C SER A 223 16.914 77.644 12.551 1.00 55.68 ATOM 2577 O SER A 223 16.913 76.965 11.584 1.00 55.68 ATOM 2578 N LEU A 234 16.194 79.186 1.00 55.68 ATOM 2579 CA LEU A 234 16.194 79.186 1.92 207 1.00 56.10 ATOM 2580 CB LEU A 234 16.194 79.186 1.92 207 1.00 56.10 ATOM 2580 CB LEU A 234 11.637 79.186 1.92 207 1.00 56.10 ATOM 2581 C LEU A 234 11.657 8.865 1.92 207 1.00 56.10 ATOM 2580 CB LEU A 234 11.657 99.298 8.625 1.00 50.472 ATOM 2580 C LEU A 234 11.657 99.298 8.625 1.00 50.472 ATOM 2580 N LLE A 235 18.1769 79.298 8.625 1.00 50.472 ATOM 2580 C LEU A 234 11.667 89.298 8.625 1.00 50.478 ATOM 2580 C LEU A 235 18.1769 79.298 8.625 1.00 50.458 ATOM 2580 C LEU A 235 18.1769 79.298 8.625 1.00 65.68 ATOM 2580 C LEU A 235 18.1769 79.298 8.625 1.00 65.68 ATOM 2580 C LEU A 235 18.1769 79.298 8.625 1.00 65.68 ATOM 2580 C LEU A 235 18.1769 79.298 8.625 1.00 65.56 ATOM 2580 C LEU A 235 18.1799 79.298 8.625 1.00 65.35 ATOM 2580 C LEU A 235 18.1799 79.298 8.625 1.00 65.35 ATOM 2580 C LEU A 235 18.1799 79.298 8.625 1.00 65.56 ATOM 2580 C LEU A 235 18.1799 79.298 8.625 1.00 65.56 ATOM 2580 C LEU A 235 18.1799 79.298 8.625 1.00 65.56 ATOM 2580 C LEU A 235 18.699 89.299 8.625 1.00 65.56 ATOM 2580 C LEU A 235 18.699 89.299 8.625 1.00 65.56 ATOM 2580 C LEU A 235 18.699 89.299 8.625 1.00 65.56 ATOM 2580 C LEU A 235 18.699 89.299 89.6625 1.00 65.55 ATOM 2580 C LEU A 235 18.699 89.299 89.6625 1.00 65.56 ATOM 2580 C LEU A 235 18.	ATOM	2565	N	VAL A	322					
XTOM 2567 CE VALA 3 222 14.939 84.767 13.615 1.00 53.168 XTOM 2568 CG2 VALA 3 222 14.698 84.767 13.615 1.00 55.17 XTOM 2569 CG2 VALA 3 222 14.698 82.698 14.655 12.511 XTOM 2570 C VALA 3 222 15.894 81.645 12.511 1.00 54.13. XTOM 2571 O VALA 3 222 15.894 81.645 12.511 1.00 59.46 XTOM 2571 O VALA 3 222 15.894 81.645 12.511 1.00 59.46 XTOM 2571 CO VALA 3 222 15.894 81.645 12.773 1.00 59.46 XTOM 2571 CO VALA 3 222 15.894 81.645 12.773 1.00 59.46 XTOM 2571 CO VALA 3 222 15.894 81.645 12.773 1.00 59.46 XTOM 2571 CO VALA 3 222 15.894 81.645 12.773 1.00 59.46 XTOM 2571 CO VALA 3 223 15.378 80.455 12.773 1.00 59.46 XTOM 2573 CO VALA 3 223 15.894 81.645 12.773 1.00 59.66 XTOM 2574 CB SER A 323 15.489 77.644 12.551 1.00 59.68 XTOM 2576 C SER A 323 16.893 78.955 11.586 1.00 55.08 XTOM 2577 O SER A 323 16.893 78.955 11.616 1.00 55.68 XTOM 2577 O SER A 323 16.931 78.521 11.584 1.00 55.68 XTOM 2577 O SER A 323 16.931 78.955 11.616 1.00 55.68 XTOM 2579 CA LEUA 324 15.596 78.485 8.959 11.616 1.00 55.64 XTOM 2579 CA LEUA 324 15.596 78.485 8.299 1.00 55.03 XTOM 2580 CE LEUA 324 11.594 79.186 10.522 1.00 55.84 XTOM 2581 CC LEUA 324 11.679 80.411 6.945 1.00 55.03 XTOM 2582 CD LEUA 324 11.679 80.411 6.945 1.00 55.03 XTOM 2583 CD LEUA 324 11.679 80.411 6.945 1.00 55.03 XTOM 2584 C C LEUA 324 11.637 79.928 8.229 1.00 55.63 XTOM 2584 C C LEUA 324 11.637 79.928 8.625 1.00 57.85 XTOM 2584 C C LEU A 324 11.637 79.928 8.625 1.00 57.85 XTOM 2584 C C LEU A 324 11.696 81.00 9.116 1.00 57.85 XTOM 2589 CC LEU A 324 17.696 81.00 9.116 1.00 57.85 XTOM 2589 CC LEU A 325 19.107 80.428 6.910 1.00 64.52 XTOM 2589 CC LEU A 325 19.107 80.428 6.910 1.00 64.52 XTOM 2589 CC LEU A 325 19.801 80.905 7.595 1.00 66.01 XTOM 2589 CC LEU A 325 19.801 80.905 7.595 1.00 66.536 XTOM 2589 CC LEU A 325 19.801 80.905 7.595 1.00 66.536 XTOM 2589 CC LEU A 325 19.801 80.905 7.595 1.00 65.36 XTOM 2589 CC LEU A 325 19.801 80.905 7.107 6.136 1.00 65.36 XTOM 2589 CC LEU A 325 19.801 80.905 7.1097 6.136 1.00 65.36 XTOM 2589 CC LEU A 325 19.801 80.905 7.1097 6.136 1.00 65.36 XT		2566	CA	VAL A	322					
ATOM 2568 CGI VAL A 322 13.945 84.767 13.625 1.00 55.17 ATOM 2570 C VAL A 322 15.694 81.645 12.521 1.00 55.17 ATOM 2570 C VAL A 322 15.694 81.645 12.521 1.00 55.17 ATOM 2572 N SER A 323 15.378 81.645 12.521 1.00 59.46 ATOM 2572 N SER A 323 15.378 80.452 12.773 1.00 59.46 ATOM 2573 CA SER A 323 15.378 80.452 12.773 1.00 59.46 ATOM 2574 CB SER A 323 15.480 78.096 13.468 1.00 59.46 ATOM 2574 CB SER A 323 15.499 77.644 12.551 1.00 59.68 ATOM 2575 OG SER A 323 16.913 78.955 11.616 1.00 59.49 ATOM 2576 C SER A 323 16.913 78.955 11.616 1.00 59.49 ATOM 2577 O SER A 323 16.913 78.955 11.616 1.00 59.49 ATOM 2579 N LEU A 324 16.795 78.861 10.522 1.00 55.68 ATOM 2579 CA LEU A 324 16.795 78.861 10.522 1.00 55.86 ATOM 2583 CG LEU A 324 16.785 78.861 8.229 1.00 52.73 ATOM 2580 CB LEU A 324 16.879 79.186 8.207 1.00 55.10 ATOM 2581 CG LEU A 324 14.679 80.411 6.945 1.00 54.79 ATOM 2583 CD LEU A 324 17.637 79.328 8.207 1.00 55.785 ATOM 2583 CD LEU A 324 17.637 79.928 8.255 1.00 57.85 ATOM 2583 CD LEU A 324 17.637 79.928 8.255 1.00 57.85 ATOM 2586 C LEU A 324 17.637 79.928 8.255 1.00 57.85 ATOM 2588 C LEU A 324 17.637 79.928 8.255 1.00 57.85 ATOM 2588 C LEU A 325 18.379 79.538 8.9116 1.00 55.56 ATOM 2588 C LEU A 325 18.379 79.538 8.9116 1.00 57.85 ATOM 2589 C C LEU A 325 18.379 79.538 8.991 1.00 64.52 ATOM 2589 C C LEU A 325 18.379 79.538 8.991 1.00 66.536 ATOM 2589 C C LEU A 325 18.379 79.538 8.991 1.00 66.536 ATOM 2589 C C LEU A 325 18.379 79.538 8.991 1.00 66.536 ATOM 2589 C C LEU A 325 18.379 79.536 7.995 1.00 66.536 ATOM 2580 C C LEU A 325 18.379 79.536 7.995 1.00 66.536 ATOM 2580 C C LEU A 325 18.379 79.536 7.995 1.00 66.536 ATOM 2589 C C LEU A 325 18.379 79.536 7.995 1.00 66.536 ATOM 2589 C C LEU A 325 18.389 79.516 7.995 1.00 67.86 ATOM 2599 N LE A 325 18.595 88.899 1.00 8.897 1.00 67.86 ATOM 2599 C C LEU A 325 17.695 80.997 6.105 1.00 67.86 ATOM 2590 C C LEU A 325 17.695 80.997 6.105 1.00 67.86 ATOM 2590 C C LEU A 326 17.799 80.566 1.00 1.00 67.86 ATOM 2590 C C LEU A 326 17.799 80.566 1.00 1.00 67.86 ATOM 2600 C LEU A 326		2567	CP	VAL A	322					
ATOM 2599 CG2 VAL A 322 14.695 82.698 14.895 14.		2568	CG1	VAL A	322	13.945				
ATOM 2570 C VAL A 322 15.894 81.645 12.478 1.00 59.46 ATOM 2572 N SER A 323 15.378 80.452 12.773 1.00 59.46 ATOM 2572 N SER A 323 15.378 80.452 12.773 1.00 59.46 ATOM 2572 N SER A 323 15.378 80.452 12.773 1.00 59.46 ATOM 2574 CB SER A 323 15.480 78.096 13.468 1.00 55.08 ATOM 2574 CB SER A 323 15.480 78.096 13.468 1.00 55.08 ATOM 2575 OG SER A 323 16.913 78.965 11.616 1.00 54.45 ATOM 2576 C SER A 323 16.913 78.965 11.616 1.00 54.45 ATOM 2576 C SER A 323 16.913 78.965 11.616 1.00 58.60 ATOM 2578 C LEU A 324 16.194 79.186 10.522 1.00 58.84 ATOM 2579 C LEU A 324 16.194 79.186 10.522 1.00 58.84 ATOM 2580 CB LEU A 324 16.194 79.186 10.522 1.00 56.10 ATOM 2580 CB LEU A 324 16.194 79.186 10.522 1.00 56.10 ATOM 2583 C LEU A 324 16.475 88.61 9.207 1.00 56.10 ATOM 2583 C LEU A 324 16.475 88.61 9.207 1.00 56.10 ATOM 2583 C LEU A 324 16.479 88.451 8.229 1.00 52.73 ATOM 2583 CD LEU A 324 11.633 79.396 80.17 1.00 51.08 ATOM 2583 CD LEU A 324 11.637 79.928 8.625 1.00 57.85 ATOM 2583 CD LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2583 CD LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2585 N LLE A 325 18.179 79.536 7.555 1.00 62.83 ATOM 2585 N LLE A 325 18.179 79.536 7.555 1.00 62.83 ATOM 2585 C LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2585 C LEU A 325 18.197 79.536 7.555 1.00 62.83 ATOM 2585 N LLE A 325 18.197 79.536 7.555 1.00 66.53 ATOM 2585 N LLE A 325 18.507 88.509 1.10 64.56 ATOM 2589 C CB LLE A 325 18.507 88.509 1.10 64.56 ATOM 2589 C CB LLE A 325 18.507 88.509 1.00 64.56 ATOM 2589 C CB LLE A 325 18.507 88.509 1.00 66.05 ATOM 2589 C CB LLE A 325 18.501 88.501 88.509 1.00 66.05 ATOM 2589 N A 388 A 326 18.621 82.673 6.312 1.00 67.86 ATOM 2599 N A 388 A 326 18.621 82.673 6.312 1.00 67.86 ATOM 2599 C CB LE A 325 18.501 88.501 88.509 1.00 66.05 ATOM 2599 N A 388 A 326 18.621 82.673 6.312 1.00 67.36 ATOM 2599 C CB ASN A 326 18.699 88.509 7 6.105 1.00 79.35 ATOM 2599 N A 388 A 326 18.699 88.509 7 6.105 1.00 79.35 ATOM 2599 N A 388 A 326 18.699 88.509 7 6.105 1.00 65.56 ATOM 2599 N A 388 A 326 18.699 88.509 7 6.105 1.00 65.			CG2	VAL A	322	14.698				
ATOM 2571 O VAL A 322 17.104 81.848 12.773 1.00 52.61 ATOM 2573 CA SER A 323 15.254 79.309 12.590 1.00 52.61 ATOM 2573 CA SER A 323 16.254 79.309 12.590 1.00 53.68 ATOM 2573 CA SER A 323 16.254 79.309 12.590 1.00 55.08 ATOM 2575 OG SER A 323 14.499 77.644 12.551 1.00 52.98 ATOM 2575 OG SER A 323 14.499 77.644 12.551 1.00 52.98 ATOM 2576 C SER A 323 14.499 77.644 12.551 1.00 54.49 ATOM 2577 O SER A 323 16.913 78.955 11.616 1.00 54.49 ATOM 2577 O SER A 323 16.913 78.955 11.616 1.00 54.49 ATOM 2578 N LEU A 324 16.725 78.861 9.207 1.00 55.86 ATOM 2578 N LEU A 324 16.725 78.861 9.207 1.00 55.84 ATOM 2579 C LEU A 324 16.725 78.861 9.207 1.00 55.10 ATOM 2583 CD LEU A 324 16.759 80.431 6.945 1.00 52.73 ATOM 2583 CD LEU A 324 11.833 79.396 8.017 1.00 53.08 ATOM 2583 CD LEU A 324 11.679 80.431 6.945 1.00 54.72 ATOM 2583 CD LEU A 324 17.696 81.050 9.116 ATOM 2585 O LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2588 CD LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2588 CB ILE A 325 18.307 80.428 6.910 1.00 62.83 ATOM 2588 CB ILE A 325 18.307 80.428 6.910 1.00 64.52 ATOM 2589 CG ILE A 325 18.501 80.496 5.747 1.00 65.36 ATOM 2589 CG ILE A 325 18.307 80.428 6.910 1.00 64.52 ATOM 2589 CG ILE A 325 18.501 80.496 5.747 1.00 65.36 ATOM 2589 CG ILE A 325 18.501 80.496 5.747 1.00 65.36 ATOM 2589 CG ILE A 325 18.501 80.496 5.747 1.00 66.53.6 ATOM 2589 CG ILE A 325 18.501 80.496 5.747 1.00 66.53.6 ATOM 2599 CG ILE A 325 18.501 80.496 5.747 1.00 66.53.6 ATOM 2599 CG ILE A 325 18.501 80.496 5.747 1.00 66.53.6 ATOM 2590 CG ILE A 325 18.501 80.496 5.747 1.00 66.53.6 ATOM 2590 CG ILE A 325 18.501 80.496 5.747 1.00 66.53.6 ATOM 2590 CG ILE A 325 18.501 80.496 5.747 1.00 66.53.6 ATOM 2590 CG ILE A 325 18.501 80.395 1.00 1.00 66.53.6 ATOM 2590 CG ILE A 325 18.501 80.395 1.00 1.00 66.53.6 ATOM 2590 CG ILE A 325 18.501 80.395 1.00 1.00 66.53.6 ATOM 2590 CG ILE A 325 18.501 80.395 1.00 63.304 1.00 65.56 ATOM 2590 CG ILE A 325 18.501 80.395 1.00 63.304 1.00 65.56 ATOM 2590 CG ILE A 325 18.501 80.395 1.00 63.304 1.00 65.56 ATOM 2590 CG ILE A 325			С	VAL A	322	15.894				
ATOM 2572 N SER A 323 15.378 80.452 12.773 1.00 \$2.02 A SER A 323 15.54 79.309 12.540 1.00 \$5.08 A SER A 323 15.54 79.309 12.540 1.00 \$5.08 A SER A 323 15.480 78.096 13.468 1.00 \$5.08 A SER A 323 15.480 78.096 13.468 1.00 \$5.08 A SER A 323 14.499 77.644 12.551 1.00 \$2.99 A SER A 323 14.499 77.644 12.551 1.00 \$2.99 A SER A 323 14.499 77.644 12.551 1.00 \$2.99 A SER A 323 18.601 78.523 11.584 1.00 \$58.60 A SER A 323 18.601 78.523 11.584 1.00 \$58.60 A SER A 323 18.601 78.523 11.584 1.00 \$58.60 A SER A 323 18.601 78.523 11.584 1.00 \$58.60 A SER A 323 18.601 79.186 10.522 1.00 \$58.60 A SER A 323 18.601 79.186 10.522 1.00 \$58.84 A SER A 324 16.194 79.186 10.522 1.00 \$58.84 A SER A 324 14.6725 78.861 9.207 1.00 \$6.10 A SER A 324 A SER A 325 18.183 79.396 8.017 1.00 \$51.08 A SER A 325 18.183 79.396 8.017 1.00 \$51.08 A SER A 325 18.183 79.396 8.017 1.00 \$51.08 A SER A 325 18.183 79.396 8.017 1.00 \$51.08 A SER A 325 18.183 79.396 8.017 1.00 \$50.43 A SER A 325 18.183 79.396 8.017 1.00 \$50.43 A SER A 325 18.183 79.396 8.017 1.00 \$50.43 A SER A 325 18.193 A SER A 325 18.00 \$57.85 A SER A 325 18.197 79.516 7.555 1.00 \$62.83 A SER A 325 18.501 A SER A 326 18.501 A SER A			0	VAL A	322	17.104	81.848			
ATOM 2573 CA SER À 323 16.254 79.305 12.950 1.00 55.08 ATOM 2574 CB SER À 323 15.480 78.096 13.468 1.00 55.08 ATOM 2575 OG SER À 323 14.499 77.644 12.551 1.00 52.99 ATOM 2576 C SER À 323 16.913 78.965 11.616 1.00 54.49 ATOM 2577 O SER À 323 18.061 78.523 11.584 1.00 55.60 ATOM 2577 O SER À 323 18.061 78.523 11.584 1.00 55.60 ATOM 2578 N LEU À 324 16.194 79.186 10.522 1.00 55.84 ATOM 2578 CA LEU À 324 16.725 78.861 9.207 1.00 55.84 ATOM 2580 CB LEU À 324 16.725 78.861 9.207 1.00 55.08 ATOM 2581 CG LEU À 324 14.679 80.431 6.945 1.00 52.73 ATOM 2583 CD2 LEU À 324 17.696 80.431 6.945 1.00 54.72 ATOM 2583 CD2 LEU À 324 17.696 81.050 9.116 1.00 55.56 ATOM 2584 C LEU À 324 17.696 81.050 9.116 1.00 55.58 ATOM 2586 N LEU À 324 17.696 81.050 9.116 1.00 55.58 ATOM 2586 N LEU À 325 18.379 79.536 7.595 1.00 62.83 ATOM 2586 CB LLE À 325 18.379 79.536 7.595 1.00 62.83 ATOM 2589 CC ILE À 325 18.379 79.536 5.747 1.00 64.52 ATOM 2589 CC ILE À 325 18.379 79.536 5.747 1.00 65.56 ATOM 2589 CC ILE À 325 19.307 80.428 6.910 1.00 64.52 ATOM 2589 CC ILE À 325 19.307 80.428 6.910 1.00 64.52 ATOM 2589 CC ILE À 325 19.507 80.428 6.910 1.00 65.56 ATOM 2590 CCI ILE À 325 19.563 77.197 6.136 1.00 67.86 ATOM 2591 CCI ILE À 325 19.563 77.197 6.136 1.00 67.86 ATOM 2593 N ASIN A 326 17.294 80.957 7.197 6.136 1.00 67.86 ATOM 2594 N ASIN A 326 18.621 80.957 7.197 6.136 1.00 67.86 ATOM 2595 CB ASIN A 326 17.294 80.386 81.71 1.00 67.38 ATOM 2596 CB LEV À 325 19.563 77.197 6.136 1.00 67.38 ATOM 2597 CC ASIN A 326 17.294 80.386 81.71 1.00 67.38 ATOM 2598 CB LEV À 325 19.563 77.197 6.136 1.00 67.38 ATOM 2599 ND LE À 325 19.507 80.507 80.957 6.105 1.00 73.566 ATOM 2599 ND LE À 325 19.507 80.507 80.957 6.105 1.00 67.38 ATOM 2591 ND LE À 325 19.668 80.957 5.10 1.00 67.38 ATOM 2592 C LLE À 325 19.507 80.958 80.957 6.105 1.00 67.38 ATOM 2596 CB ASIN A 326 17.294 80.388 80.957 5.10 1.00 67.38 ATOM 2597 ND LE À 325 18.501 80.958 80.997 6.105 5.100 67.38 ATOM 2598 ND LE À 325 18.501 80.958 80.997 6.105 5.100 67.31 ATOM 2600 N LE À 325 18.501 80.988 80.997 6.10				SER A	323	15.378	80.452			
ATOM 2574 CB SSR A 323 15.480 78.096 13.468 1.00 52.98 ATOM 2575 CO SSR A 323 16.499 77.644 12.551 1.00 52.98 ATOM 2577 O SSR A 323 16.913 78.965 11.616 1.00 54.49 ATOM 2577 N LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2579 CA LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2580 CB LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2581 CG LEU A 324 14.679 80.431 6.945 1.00 54.73 ATOM 2583 CD LEU A 324 11.683 79.396 8.017 1.00 50.73 ATOM 2583 CD LEU A 324 11.679 80.431 6.945 1.00 54.73 ATOM 2583 CD LEU A 324 17.697 80.431 6.945 1.00 54.73 ATOM 2584 C LEU A 324 17.697 80.431 6.945 1.00 57.85 ATOM 2585 O LEU A 324 17.697 80.431 6.945 1.00 57.85 ATOM 2585 C LEU A 324 17.697 80.431 6.945 1.00 57.85 ATOM 2586 C LEU A 324 17.697 80.432 6.910 1.00 57.85 ATOM 2587 CA ILE A 325 18.379 79.536 7.585 1.00 62.83 ATOM 2589 CG ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2589 CG ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2590 CGI ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2591 CD ILE A 325 19.307 80.428 6.910 1.00 65.36 ATOM 2593 C LEU A 324 17.698 80.957 5.110 6.516 6.554 ATOM 2591 CD ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2593 C C ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2593 C C ILE A 325 19.808 80.957 5.110 1.00 66.554 ATOM 2593 C C ILE A 325 19.808 77.197 6.136 1.00 67.86 ATOM 2593 C C ILE A 325 19.808 77.197 6.136 1.00 67.86 ATOM 2593 C C ILE A 325 19.808 77.197 6.136 1.00 67.86 ATOM 2593 C C ILE A 325 19.808 80.957 5.110 1.00 66.554 ATOM 2594 N ASIA A 326 17.632 85.097 6.105 1.00 78.94 ATOM 2595 C A ASIA A 326 17.632 85.097 6.105 1.00 78.94 ATOM 2596 C B ASIA A 326 17.632 85.097 6.105 1.00 79.40 ATOM 2597 C ASIA A 326 17.632 85.097 6.105 1.00 79.40 ATOM 2598 C C A ASIA A 326 17.632 85.097 6.105 1.00 79.40 ATOM 2590 C C ASIA A 326 17.632 85.097 6.105 1.00 79.40 ATOM 2590 C C ASIA A 326 17.632 85.097 6.105 1.00 79.40 ATOM 2590 C C ASIA A 326 17.632 85.097 6.105 1.00 79.40 ATOM 2607 C ASIA A 326 17.632 85.097 6.105 1.00 79.40 ATOM 2609 C LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2609 C LYS A 327 19.413					323	16.254	79.309			
ATOM 2575 OG SER A 323 14.4.999 77.644 12.551 1.00 54.49 ATOM 2576 C SER A 323 18.061 78.523 11.616 1.00 54.49 ATOM 2577 O SER A 323 18.061 78.523 11.584 1.00 55.84 ATOM 2578 N LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2579 CA LEU A 324 16.725 78.861 9.207 1.00 55.84 ATOM 2580 CB LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2581 CC LEU A 324 14.383 79.396 8.017 1.00 51.08 ATOM 2582 CD1 LEU A 324 14.679 80.431 6.945 1.00 54.72 ATOM 2583 CD2 LEU A 324 17.697 81.8561 7.606 1.00 57.85 ATOM 2584 C LEU A 324 17.697 81.050 9.116 1.00 57.85 ATOM 2585 C LEU A 324 17.697 81.050 9.116 1.00 57.85 ATOM 2586 N LLE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2587 C LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2588 CB LLE A 325 18.379 79.536 7.595 1.00 64.52 ATOM 2589 CG LLE A 325 18.379 79.536 7.595 1.00 64.52 ATOM 2589 CG LLE A 325 18.379 79.668 5.969 1.00 64.52 ATOM 2589 CG LLE A 325 18.379 79.668 5.969 1.00 64.53 ATOM 2590 CG LLE A 325 18.379 79.668 5.969 1.00 64.53 ATOM 2590 CG LLE A 325 18.379 79.536 7.595 1.00 64.536 ATOM 2591 CD1 LLE A 325 18.379 79.668 5.969 1.00 64.53 ATOM 2591 CD1 LLE A 325 18.501 81.383 6.034 1.00 65.53 ATOM 2593 O LLE A 325 18.501 81.383 6.034 1.00 65.53 ATOM 2593 C LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O LLE A 325 17.808 80.957 5.110 1.00 66.354 ATOM 2595 C LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2591 CD1 LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2590 CG LLE A 325 18.501 81.383 6.034 1.00						15.480	78.096	13.468		
ATOM 2516 C SER A 323 16.913 78.965 11.616 1.00 54.49 ATOM 2577 O SER A 323 16.913 78.965 11.584 1.00 58.60 ATOM 2577 C SER A 323 16.725 78.861 19.522 1.00 55.84 ATOM 2579 CA LEU A 324 16.725 78.861 19.207 1.00 56.10 ATOM 2587 CB LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2581 CC LEU A 324 14.679 80.431 6.945 1.00 51.73 ATOM 2583 CD LEU A 324 11.637 79.928 8.017 1.00 51.73 ATOM 2583 CD LEU A 324 11.637 79.928 8.625 1.00 54.72 ATOM 2583 CD LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2583 CD LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2585 O LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2585 O LEU A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2586 C LEU A 325 19.307 80.428 6.910 1.00 64.56 ATOM 2587 CA LLE A 325 19.307 80.428 6.910 1.00 64.56 ATOM 2589 CC2 LLE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2591 CD1 LLE A 325 20.591 78.271 6.516 1.00 65.53 ATOM 2592 C LLE A 325 20.591 78.271 6.516 1.00 65.53 ATOM 2593 CD2 LLE A 325 20.591 78.271 6.516 1.00 65.53 ATOM 2593 CD3 LLE A 325 20.591 77.197 6.136 1.00 67.86 ATOM 2594 N ASIA 326 17.898 80.957 5.110 1.00 66.55 ATOM 2595 C A ASIA 326 17.692 80.957 5.110 1.00 66.55 ATOM 2595 C A ASIA 326 17.692 80.957 5.110 1.00 66.55 ATOM 2595 C A ASIA 326 17.692 85.925 1.00 67.38 ATOM 2596 C B ASIA 326 17.692 85.925 1.00 67.38 ATOM 2597 C A ASIA 326 17.692 85.925 1.00 67.38 ATOM 2598 D ASIA 326 17.692 85.925 1.00 67.38 ATOM 2596 C B ASIA 326 17.692 85.925 1.00 67.38 ATOM 2597 C A ASIA 326 17.692 85.925 1.00 67.36 ATOM 2590 C C LE A 327 20.494 86.582 79.920 1.00 78.34 ATOM 2590 C C LE A 327 20.494 86.582 79.920 1.00 78.34 ATOM 2591 C C LE A 325 19.803 77.197 6.136 1.00 65.55 ATOM 2596 C B ASIA 3 326 17.692 85.925 7.495 1.00 78.34 ATOM 2597 C A ASIA 326 17.692 85.925 7.495 1.00 67.38 ATOM 2598 D C C LE A 325 19.803 77.197 6.136 1.00 65.55 ATOM 2596 C B ASIA 3 326 17.692 85.925 7.495 1.00 66.01 ATOM 2607 C ASIA 3 326 17.692 85.925 7.495 1.00 66.01 ATOM 2607 C ASIA 3 326 17.692 85.925 7.495 1.00 66.01 ATOM 2607 C ASIA 3 326 17.294 86.582 7.9920 1.00 79.40 ATOM 2608 C LYS A 327 19						14.499	77.644	12.551		
ATOM 2577 O SER & 323 18.061 78.523 11.584 1.00 55.84 ATOM 2578 N LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2579 CA LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2580 CB LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2581 CC LEU A 324 14.883 79.396 8.017 1.00 51.08 ATOM 2582 CD1 LEU A 324 14.873 78.561 7.606 1.00 54.72 ATOM 2582 CD1 LEU A 324 14.679 80.431 7.606 1.00 50.43 ATOM 2583 CD2 LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2584 C LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2585 N LLE A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2586 N LLE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2586 N LLE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2589 CG LLE A 324 17.697 79.668 5.969 1.00 64.52 ATOM 2589 CG ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2589 CG ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2590 CGI ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2591 CD1 ILE A 325 19.563 71.197 6.136 1.00 65.36 ATOM 2593 O LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O LLE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2595 CA ASN A 326 17.898 80.957 5.110 1.00 66.01 ATOM 2595 CA ASN A 326 17.899 81.696 5.559 1.00 68.33 ATOM 2595 CA ASN A 326 17.899 81.696 5.559 1.00 68.33 ATOM 2599 ND2 ASN A 326 17.244 81.386 81.317 1.00 67.38 ATOM 2599 ND2 ASN A 326 17.244 81.386 81.317 1.00 67.316 ATOM 2599 ND2 ASN A 326 17.244 81.386 81.317 1.00 67.317 ATOM 2600 C ASN A 326 17.244 81.386 81.317 1.00 67.317 ATOM 2601 O ASN A 326 17.244 81.386 81.317 1.00 67.317 ATOM 2602 N LYS A 327 19.413 81.404 1.00 67.51.37 ATOM 2604 CB LYS A 327 19.761 83.555 2.263 1.00 79.40 ATOM 2606 CD LYS A 327 19.761 83.655 2.554 1.00 67.317 ATOM 2601 O ASN A 326 17.244 81.386 1.3274 1.00 67.31.37 ATOM 2601 O ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2602 N LYS A 327 19.413 81.404 1.404 1.601 1.00 66.553 ATOM 2601 O ASN A 326 17.590 86.582 7.920 1.00 53.73 ATOM 2601 O LYS A 327 18.418 81.868 81.088 2.109 1.00 53.73 ATOM 2601 O LYS A 327 18.419 81						16.913	78.965	11.616		
ATOM 2579 N LEU A 324 16.194 79.186 10.522 1.00 55.84 ATOM 2579 CA LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2580 CB LEU A 324 15.596 78.865 8.229 1.00 52.73 ATOM 2581 CG LEU A 324 14.383 79.396 8.017 1.00 51.08 ATOM 2581 CG LEU A 324 14.679 80.431 6.945 1.00 51.08 ATOM 2582 CD1 LEU A 324 17.637 79.396 8.017 1.00 51.08 ATOM 2583 CD2 LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2583 CD2 LEU A 324 17.696 81.050 9.116 1.00 55.46 ATOM 2585 O LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2586 N LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2586 N LEU A 324 17.696 81.050 9.116 1.00 66.281 ATOM 2588 CB LLE A 325 19.107 80.428 6.910 1.00 64.52 ATOM 2588 CB LLE A 325 19.107 80.428 6.910 1.00 64.52 ATOM 2590 CG1 LLE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2590 CG1 LLE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2590 CG1 LLE A 325 20.591 78.271 6.516 1.00 65.56 ATOM 2592 C LLE A 325 20.591 77.197 6.136 1.00 65.56 ATOM 2592 C LLE A 325 20.591 77.197 6.136 1.00 66.55 ATOM 2594 N ASNA 326 18.621 82.673 6.312 1.00 66.01 ATOM 2595 CB ASNA 326 17.898 80.957 5.110 1.00 66.33 ATOM 2595 CB ASNA 326 17.898 83.696 5.559 1.00 66.01 ATOM 2599 CC ASNA 326 18.621 82.673 6.312 1.00 67.86 ATOM 2599 ND2 ASNA 326 17.898 85.927 6.105 1.00 73.56 ATOM 2599 CC ASNA 326 18.621 82.673 6.312 1.00 67.36 ATOM 2599 CC ASNA 326 18.621 82.673 6.312 1.00 67.386 ATOM 2599 ND2 ASNA 326 17.692 85.097 6.105 1.00 73.56 ATOM 2599 ND2 ASNA 326 17.692 85.097 6.105 1.00 73.56 ATOM 2599 ND2 ASNA 326 17.692 85.097 6.105 1.00 73.56 ATOM 2590 CG ASNA 326 17.692 85.097 6.105 1.00 73.56 ATOM 2590 CG ASNA 326 17.692 85.097 6.105 1.00 67.80 ATOM 2591 ND2 ASNA 326 17.692 85.097 6.105 1.00 73.56 ATOM 2590 ND2 ASNA 326 17.692 85.097 6.105 1.00 67.80 ATOM 2590 ND2 ASNA 326 17.793 86.592 4.068 1.00 67.81 ATOM 2591 ND2 ASNA 326 17.793 86.592 4.068 1.00 67.91 ATOM 2590 ND2 ASNA 326 17.793 86.592 4.068 1.00 67.91 ATOM 2601 N LYS A 327 19.413 83.404 3.681 1.00 67.31 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 67.93 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 67.93 AT							78.523	11.584	1.00	
ATOM 2579 CA LEU A 324 16.725 78.861 9.207 1.00 56.10 ATOM 2580 CB LEU A 324 15.596 78.485 8.229 1.00 52.73 ATOM 2581 CG LEU A 324 14.883 79.396 8.017 1.00 51.08 ATOM 2582 CD1 LEU A 324 14.679 80.431 6.945 ATOM 2582 CD1 LEU A 324 17.637 79.928 8.625 1.00 50.472 ATOM 2583 CD2 LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2584 C LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2585 O LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2586 N ILE A 325 18.179 79.536 7.595 1.00 62.83 ATOM 2587 CA ILE A 325 18.179 79.536 7.595 1.00 64.52 ATOM 2587 CA ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2588 CG ILE A 325 20.264 79.668 5.969 1.00 64.52 ATOM 2589 CG2 ILE A 325 20.264 79.668 5.969 1.00 64.53 ATOM 2599 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2591 CD1 ILE A 325 20.591 77.197 6.336 1.00 67.86 ATOM 2593 O LE A 325 19.563 77.197 6.336 1.00 67.86 ATOM 2593 O LE A 325 19.563 77.197 6.336 1.00 67.38 ATOM 2593 O LE A 325 19.563 77.197 6.336 1.00 67.38 ATOM 2595 CA ASNA 326 17.898 80.957 5.110 1.00 66.01 ATOM 2596 CB ASNA 326 17.899 83.696 5.559 1.00 67.38 ATOM 2596 CB ASNA 326 17.632 85.502 7.495 1.00 67.38 ATOM 2599 CG ASNA 326 17.632 83.663 4.068 1.00 67.31 ATOM 2599 ND2 ASNA 326 17.632 83.863 4.068 1.00 67.31 ATOM 2599 ND2 ASNA 326 17.524 84.386 8.171 1.00 83.34 ATOM 2599 ND2 ASNA 326 17.524 84.386 8.171 1.00 85.36 ATOM 2599 ND2 ASNA 326 17.224 84.386 8.171 1.00 85.36 ATOM 2600 C ASNA 326 17.224 84.386 8.171 1.00 85.36 ATOM 2600 C ASNA 326 17.224 84.386 8.171 1.00 85.36 ATOM 2601 O ASNA 326 17.224 84.386 8.171 1.00 85.34 ATOM 2602 C ASNA 326 17.224 84.386 8.171 1.00 85.36 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 C ASNA 326 17.224 84.386 8.171 1.00 85.36 ATOM 2606 CG LYS A 327 19.761 83.355 2.265 1.00 55.30 ATOM 2607 CE LYS A 327 19.761 83.355 2.265 1.00 55.30 ATOM 2608 NZ LYS A 327 19.761 83.355 2.265 1.00 55.30 ATOM 2609 C LYS A 327 19.761 83.355 2.265 1.00 55.30 ATOM 2610 N LYS A 327 19.761 83.345 1.410 1.00 55.30 ATOM 2610 N ASNA 328 1								10.522	1.00	
ATOM 2590 CB LEU A 324 15.596 78.485 8.229 1.00 52.73 ATOM 2591 CG LEU A 324 14.833 79.396 8.017 1.00 51.08 ATOM 2592 CD1 LEU A 324 14.679 80.431 6.945 1.00 54.72 ATOM 2593 CD2 LEU A 324 17.637 79.298 8.625 1.00 54.72 ATOM 2593 CD2 LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2595 O LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2595 O LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2598 CB ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2598 CB ILE A 325 19.307 80.428 6.910 1.00 64.56 ATOM 2590 CG1 ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2590 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.591 77.197 6.136 1.00 65.56 ATOM 2592 C ILE A 325 19.563 77.197 6.136 1.00 66.51 ATOM 2593 O ILE A 325 19.563 77.197 6.136 1.00 66.55 ATOM 2594 N ASN A 326 18.621 82.673 6.312 1.00 66.01 ATOM 2595 CA ANN 3 26 18.621 82.673 6.312 1.00 66.33 ATOM 2595 CA ANN 3 26 18.621 82.673 6.312 1.00 67.86 ATOM 2596 CB ANN 3 26 18.621 82.673 6.312 1.00 67.86 ATOM 2599 ND2 ANN A 326 18.621 82.673 6.312 1.00 67.36 ATOM 2599 CG ANN 3 26 18.625 85.097 6.105 1.00 73.56 ATOM 2599 ND2 ANN 3 326 17.590 86.592 7.495 1.00 79.40 ATOM 2596 CB ANN 3 26 17.632 85.097 6.105 1.00 73.56 ATOM 2599 ND2 ANN A 326 17.524 83.861 3.271 1.00 83.34 ATOM 2599 ND2 ANN A 326 17.590 86.592 7.920 1.00 79.40 ATOM 2599 ND2 ANN A 326 17.590 86.592 7.920 1.00 79.40 ATOM 2600 C ANN A 326 17.594 83.861 3.271 1.00 67.31 ATOM 2600 C ANN A 326 17.594 83.663 4.068 1.00 65.51 ATOM 2600 C ANN A 326 17.594 83.663 4.068 1.00 65.53 ATOM 2600 C ANN A 326 17.594 83.663 4.068 1.00 65.53 ATOM 2600 C ANN A 326 17.594 83.663 4.068 1.00 65.53 ATOM 2601 C ANN A 326 17.594 83.663 4.068 1.00 65.53 ATOM 2602 C ANN A 326 17.594 83.663 4.068 1.00 65.53 ATOM 2600 C ANN A 326 17.594 83.663 4.068 1.00 65.53 ATOM 2600 C ANN A 326 17.594 83.663 4.068 1.00 65.53 ATOM 2601 C ANN A 326 17.594 83.660 3.274 1.00 67.11 ATOM 2601 C ANN A 326 17.594 83.661 3.277 1.00 50.88 ATOM 2602 CD LYS A 327 19.413 83.404 3.661 1.00 67.11 ATOM 2601 C ANN A 326 17.594 83.660 3.00 3.00 3.00 50.00 5							78.861	9.207	1.00	56.10
ATOM 2581 CG LEU A 324 14.883 79.395 8.017 1.00 51.08 ATOM 2582 CD1 LEU A 324 14.679 80.431 6.945 1.00 54.72 ATOM 2583 CD2 LEU A 324 17.696 80.431 6.945 ATOM 2584 C LEU A 324 17.696 81.050 9.116 1.00 57.85 ATOM 2586 N ILE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2586 N ILE A 325 18.379 79.536 7.595 1.00 64.56 ATOM 2587 CA ILE A 325 19.307 80.428 6.910 1.00 64.56 ATOM 2589 CG2 ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CG2 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2599 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.56 ATOM 2599 CG1 ILE A 325 21.516 80.496 5.747 1.00 65.36 ATOM 2591 CD1 ILE A 325 19.563 77.197 6.136 1.00 65.56 ATOM 2593 O ILE A 325 19.563 77.197 6.136 1.00 65.56 ATOM 2593 O ILE A 325 17.808 80.957 5.110 1.00 66.01 ATOM 2594 N ASN A 326 18.621 82.673 6.312 1.00 67.86 ATOM 2595 CA ASN A 326 18.621 82.673 6.312 1.00 67.86 ATOM 2596 CB ASN A 326 17.632 85.325 7.495 1.00 73.56 ATOM 2599 OD1 ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2599 ND2 ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2599 ND2 ASN A 326 17.590 86.552 7.920 1.00 79.40 ATOM 2598 OD1 ASN A 326 17.590 86.552 7.920 1.00 79.40 ATOM 2598 OD1 ASN A 326 17.593 86.653 7.992 1.00 79.40 ATOM 2598 OD1 ASN A 326 17.594 84.366 81.71 1.00 65.31 ATOM 2598 OD1 ASN A 326 17.594 86.562 7.920 1.00 79.40 ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.53 ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.53 ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.53 ATOM 2600 C ASN A 326 18.205 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 18.688 81.088 2.095 1.00 53.73 ATOM 2600 C ASN A 326 18.696 85.097 6.105 1.00 79.40 ATOM 2601 O ASN A 326 17.594 84.366 81.71 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2600 C ASN A 326 18.696 85.097 6.105 1.00 59.01 ATOM 2601 C LYS A 327 19.03 82.266 1.500 1.00 59.01 ATOM 2602 N LYS A 327 19.03 82.266 1.500 1.00 59.01 ATOM 2609 C LYS A 327 19.03 82.266 1.500 1.00 59.01 ATOM 2610 N LYS A 327 19.761 80.341 1.00 60.505 1.00 59.01 ATOM 26								8.229	1.00	52.73
ATOM 2581 CD1 LEU A 324 14.679 80.431 6.945 1.00 \$4.72 ATOM 2583 CD2 LEU A 324 17.637 78.561 7.606 1.00 50.43 ATOM 2584 C LEU A 324 17.637 78.928 8.625 1.00 57.85 ATOM 2585 O LEU A 324 17.696 81.050 9.116 1.00 57.85 ATOM 2586 N LE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2587 CA ILE A 325 18.379 79.536 7.595 1.00 64.56 ATOM 2588 CB ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2588 CC ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CC ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CC ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2590 CC ILE A 325 20.591 77.197 6.135 1.00 67.86 ATOM 2591 CD ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 18.601 80.496 5.559 1.00 67.86 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 66.01 ATOM 2595 CA ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2597 CG ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2599 ND2 ASN A 326 17.224 84.386 8.171 1.00 73.56 ATOM 2599 ND2 ASN A 326 17.224 84.386 8.171 1.00 79.40 ATOM 2590 CD ASN A 326 17.254 84.386 8.171 1.00 65.51 ATOM 2590 CD ASN A 326 17.254 84.386 8.171 1.00 79.40 ATOM 2590 CD ASN A 326 17.254 84.386 1.00 65.53 ATOM 2590 CD ASN A 326 17.254 84.386 1.00 65.53 ATOM 2590 CD ASN A 326 17.254 84.386 1.00 65.53 ATOM 2590 ND2 ASN A 326 17.254 84.386 1.00 65.53 ATOM 2600 C ASN A 326 17.254 84.386 1.00 65.53 ATOM 2600 C ASN A 326 17.254 84.386 1.00 65.53 ATOM 2600 C ASN A 326 17.254 84.386 1.00 65.53 ATOM 2600 C ASN A 326 17.254 84.386 1.00 66.90 ATOM 2601 N LYS A 327 19.413 83.404 3.681 1.00 65.51 ATOM 2602 N LYS A 327 21.277 83.218 2.295 1.00 53.73 ATOM 2605 CD LYS A 327 22.218 84.515 2.327 1.00 53.74 ATOM 2606 CD LYS A 327 19.60 88.6592 7.900 1.00 59.01 ATOM 2607 CE LYS A 327 24.203 86.582 1.467 1.00 66.90 ATOM 2608 CD LYS A 327 19.761 83.355 2.266 1.00 60.90 ATOM 2609 C LYS A 327 19.761 83.218 2.266 1.00 60.90 ATOM 2610 N ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2610 N ASN A 328 18.867 79.980 1.439 1.00 56.59								8.017	1.00	51.08
ATOM 2588 CD2 LEU A 324 13.183 78.561 7.606 1.00 50.43 ATOM 2584 C LEU A 324 17.696 81.050 9.116 1.00 57.85 ATOM 2585 O LEU A 324 17.696 81.050 9.116 1.00 55.56 ATOM 2586 N ILE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2587 CA ILE A 325 19.307 80.428 6.910 1.00 64.56 ATOM 2588 CB ILE A 325 19.307 80.428 6.910 1.00 64.56 ATOM 2589 CG2 ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CG2 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2599 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.53 ATOM 2591 CD1 ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 N 8N A 326 18.621 82.673 6.312 1.00 66.35 ATOM 2595 CA ASN A 326 18.621 82.673 6.312 1.00 66.31 ATOM 2595 CB ASN A 326 17.632 85.097 6.105 1.00 73.56 ATOM 2596 CB ASN A 326 17.632 85.097 6.105 1.00 73.56 ATOM 2597 CG ASN A 326 17.632 85.025 7.920 1.00 73.56 ATOM 2598 ODL ASN A 326 17.632 85.025 7.920 1.00 73.56 ATOM 2598 ODL ASN A 326 17.632 85.325 7.920 1.00 88.33 ATOM 2598 ODL ASN A 326 17.632 85.325 7.920 1.00 79.40 ATOM 2598 ODL ASN A 326 17.590 86.552 7.920 1.00 79.40 ATOM 2598 ODL ASN A 326 17.590 86.552 7.920 1.00 79.40 ATOM 2598 ODL ASN A 326 17.590 86.552 7.920 1.00 79.40 ATOM 2590 C ASN A 326 18.169 83.663 4.068 8.171 1.00 83.34 ATOM 2600 C ASN A 326 17.224 84.386 8.171 1.00 67.31 ATOM 2600 C ASN A 326 18.169 83.663 4.068 8.100 65.53 ATOM 2600 C ASN A 326 18.169 83.663 4.068 8.100 65.53 ATOM 2600 C ASN A 326 18.469 83.663 4.068 8.100 65.53 ATOM 2600 C ASN A 326 18.469 83.663 4.068 8.100 65.53 ATOM 2600 C ASN A 326 18.469 83.663 4.068 8.100 65.53 ATOM 2601 C ASN A 326 17.254 84.386 8.171 1.00 59.01 ATOM 2604 CB LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2605 CG LYS A 327 19.761 83.355 2.263 1.00 59.01 ATOM 2606 CD LYS A 327 19.761 83.355 2.263 1.00 59.01 ATOM 2607 CE LYS A 327 19.761 83.355 2.263 1.00 59.01 ATOM 2608 CD LYS A 327 19.761 83.355 2.266 1.00 60.50 ATOM 2609 C LYS A 327 19.03 82.256 1.500 1.00 55.14 ATOM 2610 N LYS A 327 19.761 80.00 82.477 1.00 59.34 ATOM 2611 N ASN A 328 18.868 81.086 81.086								6.945	1.00	54.72
ATOM 2588 CD LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2585 O LEU A 324 17.637 79.928 8.625 1.00 57.85 ATOM 2586 N ILE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2587 CA ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2588 CE ILE A 325 20.264 79.668 5.969 1.00 64.52 ATOM 2589 CG2 ILE A 325 20.264 79.668 5.969 1.00 65.36 ATOM 2589 CG2 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.53 ATOM 2590 CG1 ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2591 CD1 ILE A 325 19.563 77.197 6.136 1.00 65.56 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 67.86 ATOM 2593 N ASH 326 17.899 83.695 5.110 1.00 66.01 ATOM 2595 CA ASH A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASH 3 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASH 3 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASH 3 326 17.24 84.386 8.171 1.00 73.56 ATOM 2599 ND2 ASH 3 326 17.24 84.386 8.171 1.00 83.34 ATOM 2599 ND2 ASH 3 326 17.254 84.386 8.171 1.00 83.34 ATOM 2599 ND2 ASH 3 326 17.254 83.861 3.274 1.00 67.14 ATOM 2600 C ASH 3 326 17.254 83.861 3.274 1.00 67.14 ATOM 2600 C ASH 3 326 17.254 83.861 3.274 1.00 67.14 ATOM 2600 C ASH 3 326 17.254 83.861 3.274 1.00 67.14 ATOM 2601 C ASH 3 327 19.761 83.355 2.263 1.00 54.20 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2609 C LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2600 C ASH 3 326 17.254 83.861 3.274 1.00 67.11 ATOM 2601 CR LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2606 CD LYS A 327 19.61 83.355 2.263 1.00 54.20 ATOM 2607 CE LYS A 327 19.61 83.355 2.263 1.00 54.20 ATOM 2608 C LYS A 327 19.61 83.355 2.263 1.00 54.20 ATOM 2609 C LYS A 327 19.61 83.355 2.266 1.500 1.00 59.34 ATOM 2601 CA ASH A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2603 C LYS A 327 19.413 83.404 3.681 1.00 59.34 ATOM 2606 CD LYS A 327 19.61 83.355 2.266 1.500 1.00 59.34 ATOM 2611 N ASH A 328 18.868 81.088 2.109 1.00 56.30 ATOM 2612 CA SSH A 328 18.869 81.08 82.205 1.500 59	MOTA								1.00	50.43
ATOM 2585 O LEU A 324 17.696 81.050 9.116 1.00 55.566 ATOM 2586 N ILE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2587 CA ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2588 CB ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CG2 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2591 CD1 ILE A 325 19.563 77.197 6.136 1.00 65.56 ATOM 2592 C ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 17.808 80.957 5.110 1.00 66.01 ATOM 2595 CA ASN A 326 18.621 82.673 6.312 1.00 67.38 ATOM 2595 CA ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASN A 326 17.699 83.696 5.559 1.00 78.94 ATOM 2595 CB ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2595 CB ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.244 84.386 8.171 1.00 83.34 ATOM 2500 C ASN A 326 17.250 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.53 ATOM 2600 C LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.37 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.73 ATOM 2608 NZ LYS A 327 19.761 83.355 2.263 1.00 53.73 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.74 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.74 ATOM 2607 CE LYS A 327 22.021 84.515 2.327 1.00 53.73 ATOM 2608 NZ LYS A 327 19.610 82.472 0.370 1.00 59.34 ATOM 2608 NZ LYS A 327 19.63 86.582 1.467 1.00 58.17 ATOM 2601 O ASN A 328 18.868 81.088 2.109 1.00 50.58 ATOM 2606 CD LYS A 327 19.63 82.256 1.500 1.00 51.74 ATOM 2606 CD LYS A 327 19.63 82.256 1.500 1.00 53.73 ATOM 2606 CD LYS A 327 19.03 82.256 1.500 1.00 53.74 ATOM 2607 CE LYS A 327 19.03 82.256 1.500 1.00 53.74 ATOM 2608 NZ LYS A 327 19.63 80.340 2.864 1.00 65.53 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 1.088 2.109 1.00 56.30 A	MOTA								1.00	57.85
ATOM 2585 N ILE A 325 18.379 79.536 7.595 1.00 62.83 ATOM 2586 N ILE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2588 CB ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CG2 ILE A 325 20.264 79.668 5.969 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.264 79.668 5.969 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.264 79.668 5.969 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.264 79.668 5.969 1.00 65.36 ATOM 2591 CD1 ILE A 325 20.591 78.271 6.516 1.00 65.53 ATOM 2592 C ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 67.86 ATOM 2593 N ASN A 326 18.621 82.673 6.312 1.00 66.01 ATOM 2593 N ASN A 326 18.621 82.673 6.312 1.00 66.31 ATOM 2595 CA ASN A 326 18.621 82.673 6.312 1.00 67.38 ATOM 2595 CB ASN A 326 18.205 85.097 6.105 1.00 73.56 ATOM 2597 CG ASN A 326 17.299 83.696 5.559 1.00 68.33 ATOM 2598 OD1 ASN A 326 17.244 84.386 8.171 1.00 83.34 ATOM 2598 ND2 ASN A 326 17.224 84.386 8.171 1.00 83.34 ATOM 2598 ND2 ASN A 326 17.224 84.386 8.171 1.00 83.34 ATOM 2600 C ASN A 326 17.224 84.386 8.171 1.00 83.34 ATOM 2600 C ASN A 326 17.224 84.386 8.171 1.00 83.34 ATOM 2600 C ASN A 326 17.224 84.386 8.171 1.00 85.36 ATOM 2600 C ASN A 326 17.224 84.386 8.171 1.00 85.36 ATOM 2600 C ASN A 326 17.224 84.386 8.171 1.00 85.34 ATOM 2600 C ASN A 326 17.224 84.386 8.171 1.00 85.34 ATOM 2600 C ASN A 326 17.234 83.861 3.274 1.00 67.11 ATOM 2600 C ASN A 326 17.234 83.861 3.274 1.00 67.11 ATOM 2600 C ASN A 326 17.234 83.861 3.274 1.00 67.31 ATOM 2600 C ASN A 326 17.390 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 17.390 86.582 7.920 1.00 59.01 ATOM 2601 N ASN A 326 17.390 86.582 7.920 1.00 59.01 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.433 83.404 3.681 1.00 59.01 ATOM 2601 C LYS A 327 19.033 82.256 1.00 60.90 ATOM 2603 CA LYS A 327 19.613 83.355 2.263 1.00 54.20 ATOM 2606 CD LYS A 327 19.63 86.582 1.467 1.00 59.01 ATOM 2608 NZ LYS A 327 19.63 82.256 1.500 1.00 53.73 ATOM 2610 C LYS A 327 18.610 82.472 0.370 1.00 59.31 ATOM 2610 C ASN A 328 18.868 81.088 2.1095 1.00 50.58 ATOM 2611 N ASN	MOTA								1.00	55.56
ATOM 2586 N LLE A 325 19.307 80.428 6.910 1.00 64.52 ATOM 2588 CB LLE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CG2 LLE A 325 20.591 79.668 5.969 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2591 CD1 ILE A 325 20.591 78.271 6.136 1.00 67.86 ATOM 2592 C LLE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 66.01 ATOM 2593 O ILE A 325 17.808 80.957 5.110 1.00 66.01 ATOM 2594 N ASN A 326 18.621 82.673 6.312 1.00 67.38 ATOM 2595 CA ASN A 326 18.205 85.097 6.105 1.00 73.56 ATOM 2595 CB ASN A 326 17.692 83.696 5.559 1.00 68.33 ATOM 2597 CG ASN A 326 17.692 85.325 7.495 1.00 78.94 ATOM 2597 CG ASN A 326 17.254 84.386 8.171 1.00 78.94 ATOM 2599 ND2 ASN A 326 17.254 84.386 8.171 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.254 84.386 8.171 1.00 83.34 ATOM 2599 ND2 ASN A 326 17.254 84.386 8.171 1.00 65.51 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 65.51 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 65.51 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 65.11 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 65.17 ATOM 2600 C LYS A 327 24.203 86.582 1.467 1.00 65.17 ATOM 2601 CD LYS A 327 19.03 82.566 1.500 1.00 51.14 ATOM 2601 CD LYS A 327 19.03 82.566 1.500 1.00 51.14 ATOM 2601 CD LYS A 327 19.03 82.566 1.500 1.00 51.14 ATOM 2601 CD LYS A 327 19.03 82.566 1.500 1.00 51.00 ATOM 2610 CD LYS A 327 19.03 82.566 1.500 1.00 51.00 51.00 ATOM 2610 CD LYS A 327 19.03 82.566 1.500 1.00 51.00 51.00 ATOM 2610 CD LYS A 327 19.03 82.566 1.500 1.00 51.00 51.00 ATOM 2610 CD LYS A 327 19.03 82.560 1.500 1.00 51.00 ATOM 2610 CD LYS A 327 19.03 82.500 59.00	MOTA									62.83
ATOM 2589 CB ILE A 325 20.264 79.668 5.969 1.00 64.56 ATOM 2589 CB ILE A 325 20.264 79.668 5.967 1.00 65.36 ATOM 2590 CG1 ILE A 325 20.591 78.271 6.516 1.00 65.53 ATOM 2591 CD1 ILE A 325 20.591 78.271 6.516 1.00 65.56 ATOM 2591 CD1 ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2591 CD1 ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 66.01 ATOM 2593 O ILE A 325 17.808 80.957 5.110 1.00 66.01 ATOM 2594 N ASN A 326 18.621 82.673 6.312 1.00 67.38 ATOM 2595 CA ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASN A 326 17.632 85.325 7.495 1.00 73.56 ATOM 2598 OD1 ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2598 OD1 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 17.590 83.861 3.274 1.00 67.11 ATOM 2600 C ASN A 326 17.524 83.861 3.274 1.00 67.11 ATOM 2600 C ASN A 326 17.594 83.861 3.274 1.00 67.11 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 59.11 ATOM 2603 CA LYS A 327 19.761 83.355 2.266 1.00 54.20 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.73 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.74 ATOM 2607 CE LYS A 327 22.021 84.515 2.327 1.00 53.74 ATOM 2607 CE LYS A 327 22.021 84.515 2.327 1.00 53.74 ATOM 2607 CE LYS A 327 22.021 84.515 2.327 1.00 53.74 ATOM 2607 CE LYS A 327 22.021 84.515 2.327 1.00 53.74 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 551.14 ATOM 2607 CE LYS A 327 19.033 82.256 1.500 1.00 551.14 ATOM 2607 CE LYS A 327 19.033 82.256 1.500 1.00 551.14 ATOM 2610 N ASN A 328 18.868 81.088 2.109 1.00 551.00 ATOM 2610 C ASN A 328 18.689 81.088 2.109 1.00 551.00 ATOM 2611 N ASN A 328 18.689 81.088 2.109 1.00 55.30 ATOM 2612 CA ASN A 328 18.677 79.980 1.439 1.00 56.39 ATOM 2611 N ASN A 328 18.677 79.980 1.439 1.00 56.59 ATOM 2611 N ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2613 CB ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2610 CB ASN A 328 15.976 79.760 0.505 1.00	ATOM	2586							1.00	64.52
ATOM 2588 CB ILE A 325 20.591 79.00 55.747 1.00 65.36 ATOM 2590 CGI ILE A 325 20.591 78.271 6.516 1.00 65.36 ATOM 2591 CDI ILE A 325 20.591 78.271 6.136 1.00 67.86 ATOM 2592 C ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2592 C ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 66.01 ATOM 2594 N ASN A 326 18.621 82.673 6.312 1.00 67.38 ATOM 2595 CA ASN A 326 18.205 85.097 6.135 1.00 67.38 ATOM 2595 CB ASN A 326 18.205 85.097 6.105 1.00 73.56 ATOM 2595 CB ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CB ASN A 326 17.899 83.696 5.007 6.105 1.00 73.56 ATOM 2598 ODI ASN A 326 17.224 84.386 81.71 1.00 83.34 ATOM 2599 NDZ ASN A 326 17.224 84.386 81.71 1.00 83.34 ATOM 2599 NDZ ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2500 C ASN A 326 18.69 83.663 4.068 1.00 65.53 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2601 O ASN A 326 17.248 83.861 3.274 1.00 67.11 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 C ASN A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2605 CG LYS A 327 22.277 83.218 2.095 1.00 53.73 ATOM 2606 CD LYS A 327 22.277 83.218 2.095 1.00 53.73 ATOM 2606 CD LYS A 327 19.033 82.256 1.500 1.00 53.84 ATOM 2607 CE LYS A 327 19.033 82.256 1.500 1.00 53.84 ATOM 2607 CE LYS A 327 19.033 82.256 1.500 1.00 53.84 ATOM 2608 NZ LYS A 327 19.033 82.256 1.500 1.00 53.84 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 59.34 ATOM 2610 CB ASN A 328 18.868 81.088 2.109 1.00 53.84 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.166 79.980 1.439 1.00 56.59 ATOM 2611 N ASN A 328 18.166 79.980 1.439 1.00 56.59 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.54 ATOM 2610 O LYS A 327 14.604 77.939 2.645 1.00 63.66	ATOM	2587								64.56
ATOM 2589 CG2 ILE A 325 21.516 30.0 65.53 ATOM 2591 CD1 ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2592 C ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2593 O ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2593 O ILE A 325 17.808 80.957 5.110 1.00 66.01 ATOM 2593 O ILE A 325 17.808 80.957 5.110 1.00 66.01 ATOM 2595 CA ASN A 326 18.621 82.673 6.312 1.00 68.33 ATOM 2595 CA ASN A 326 18.621 82.673 6.312 1.00 68.33 ATOM 2596 CB ASN A 326 17.632 85.097 6.105 1.00 73.56 ATOM 2597 CG ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2598 OD1 ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 67.11 ATOM 2603 CA LYS A 327 19.761 83.55 2.263 1.00 59.01 ATOM 2604 CB LYS A 327 19.761 83.55 2.263 1.00 54.20 ATOM 2605 CC LYS A 327 22.021 84.515 2.327 1.00 53.73 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.73 ATOM 2607 CE LYS A 327 22.021 84.515 2.327 1.00 53.73 ATOM 2608 NZ LYS A 327 19.033 82.256 1.500 1.00 53.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2610 N ASN A 328 18.166 79.980 1.439 1.00 50.58 ATOM 2611 N ASN A 328 18.166 79.980 1.439 1.00 50.58 ATOM 2612 CA ASN A 328 18.166 79.980 1.439 1.00 50.59 ATOM 2614 CG ASN A 328 16.657 80.013 1.498 1.00 67.73 ATOM 2615 CD1 ASN A 328 16.657 80.013 1.498 1.00 57.74 ATOM 2616 CD ASN A 328 16.657 80.013 1.498 1.00 57.74 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 57.74 ATOM 2618 NO ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2619 N GLY A 329 14.678 80.340 2.864 1.00 57.79 ATOM 2610 C C C S S A 3 329 14.604 77.939 2.645 1.00 63.44 ATOM 2620 CA GLY A 329 14.604 77.939 2.665 1.00 63.44 ATOM 2621 C C	ATOM	2588								
ATOM 2590 CG1 ILE A 325 19.563 77.197 6.136 1.00 67.86 ATOM 2591 CD1 ILE A 325 18.501 81.383 6.034 1.00 65.56 ATOM 2592 C ILE A 325 18.501 80.957 5.110 1.00 66.01 ATOM 2593 O ILE A 325 17.808 80.957 5.110 1.00 67.38 ATOM 2594 N ASN A 326 18.621 82.673 6.312 1.00 67.38 ATOM 2595 CA ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2596 CB ASN A 326 17.632 85.097 6.105 1.00 73.56 ATOM 2597 CG ASN A 326 17.632 85.957 7.495 1.00 78.94 ATOM 2598 OD1 ASN A 326 17.632 85.325 7.495 1.00 83.34 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 83.34 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 65.53 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 65.51 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 65.53 ATOM 2603 CA LYS A 327 19.761 83.555 2.263 1.00 59.01 ATOM 2604 CE LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 66.90 ATOM 2609 C LYS A 327 19.033 82.256 1.500 50.50 ATOM 2609 C LYS A 327 19.033 82.256 1.500 50.50 ATOM 2610 O LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 55.36 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.50 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.50 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.50 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.50 ATOM 2612 CA ASN A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2614 CG ASN A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2616 ND2 ASN A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2617 C ASN A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2618 O ASN A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2619 N GLY A 329 14.678 80.344 2.864 1.00 57.93 ATOM 2619 N GLY A 329 14.678 80.344 2.864 1.00 57.93 ATOM 2620 CA GLY A 329 14.604 77.939 2.645 1.00 63.44 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.44	ATOM	2589	CG2							
ATOM 2591 CD1 ILE A 325 19.563 77.37	ATOM	2590	CG1							
ATOM 2593 C ILE A 325 18.501 1.00 66.01 ATOM 2593 N ASN A 326 18.621 82.673 6.312 1.00 67.38 ATOM 2594 N ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2595 CA ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2596 CB ASN A 326 17.632 85.097 6.105 1.00 73.56 ATOM 2597 CG ASN A 326 17.632 85.025 7.495 1.00 78.94 ATOM 2598 ND2 ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 17.590 86.582 7.920 1.00 65.53 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.461 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 23.511 84.317 2.266 1.00 60.90 ATOM 2608 NZ LYS A 327 19.033 82.256 1.500 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 N ASN A 328 18.868 81.088 2.109 1.00 50.58 ATOM 2610 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2612 CA ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2613 CB ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2614 CG ASN A 328 18.866 79.980 1.439 1.00 56.30 ATOM 2615 CD ASN A 328 18.166 79.980 1.439 1.00 56.30 ATOM 2616 ND2 ASN A 328 18.166 79.980 1.439 1.00 56.59 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.59 ATOM 2619 N GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2610 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2611 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2612 CA ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2614 CG ASN A 328 17.997 79.056 1.725 1.00 64.552 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 14.678 80.340 2.864 1.00 62.645 1.00 63.64	MOTA	2591	CDl							
ATOM 2593 O ILE A 325 17.808 80.997 5.312 1.00 67.38 ATOM 2594 N ASN A 326 18.621 82.673 6.312 1.00 68.33 ATOM 2595 CA ASN A 326 17.899 83.696 5.559 1.00 68.33 ATOM 2596 CB ASN A 326 18.205 85.097 6.105 1.00 73.56 ATOM 2597 CG ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2598 ODI ASN A 326 17.590 86.582 7.495 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 65.53 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2604 CB LYS A 327 19.413 83.404 3.681 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.263 1.00 54.20 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2609 C LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2609 C LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 18.610 82.472 0.370 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2612 CA ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2613 CB ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2614 CG ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2614 CG ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2614 CG ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2614 CG ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2614 CG ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2613 CB ASN A 328 18.665 79.930 1.4947 1.00 59.34 ATOM 2614 CG ASN A 328 18.665 79.930 1.4947 1.00 59.34 ATOM 2614 CG ASN A 328 15.6657 80.013 1.498 1.00 56.59 ATOM 2614 CG ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2620 CA GLY A 329 13.973 79.011 2.645 1.00 63.66 A	ATOM	2592	C	ILE A						
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ATOM 2595 CB ASN A 326 17.899 81.896 1.00 73.56 ATOM 2596 CB ASN A 326 17.632 85.097 6.105 1.00 73.56 ATOM 2597 CG ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2598 OD1 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 17.590 86.582 7.920 1.00 65.53 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2604 CB LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2605 CG LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 65.11 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 55.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 55.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.58 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 50.58 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 18.186 79.980 1.439 1.00 55.30 ATOM 2615 OD1 ASN A 328 18.186 79.980 1.439 1.00 55.30 ATOM 2616 ND2 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2616 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2617 C ASN A 328 18.566 79.906 1.725 1.00 64.52 ATOM 2618 O ASN A 328 18.717 78.637 1.947 1.00 55.30 ATOM 2610 C ASN A 328 18.717 78.637 1.947 1.00 55.30 ATOM 2611 N ASN A 328 18.717 78.637 1.947 1.00 55.34 ATOM 2612 CA ASN A 328 18.717 78.637 1.947 1.00 55.59 ATOM 2616 ND2 ASN A 328 18.717 78.637 1.947 1.00 55.59 ATOM 2617 C ASN A 328 18.5976 79.760 0.505 1.00 57.74 ATOM 2618 O ASN A 328 18.797 79.056 1.725 1.00 64.52 ATOM 2619 N GLY A 329 16.117 80.291 2.645 1.00 65.69 ATOM 2620 CA GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.44 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.44		2594	N	ASN A	326					
ATOM 2596 CB ASN A 326 17.632 85.097 7.495 1.00 78.94 ATOM 2597 CG ASN A 326 17.632 85.325 7.495 1.00 78.94 ATOM 2598 OD1 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.590 86.582 1.00 67.11 ATOM 2600 C ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 50.884 ATOM 2608 NZ LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 55.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 55.58 ATOM 2610 N LYS A 327 18.610 82.472 0.370 1.00 55.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 55.30 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 55.30 ATOM 2613 CB ASN A 328 18.186 79.980 1.439 1.00 55.30 ATOM 2614 CG ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2615 CD ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2616 ND2 ASN A 328 18.186 79.980 1.439 1.00 55.30 ATOM 2617 C ASN A 328 18.507 79.760 0.505 1.00 64.52 ATOM 2618 O ASN A 328 18.5976 79.905 1.725 1.00 64.52 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.685 1.00 57.74 ATOM 2610 C ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2611 C ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2612 C ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.645 1.00 63.66 ATOM 2620 C GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.44 ATOM 2622 C GLY A 329 14.604 77.939 2.645 1.00 63.44 ATOM 2623 N GLN A 330 12.665 79.134		2595	CA	ASN A	326					
ATOM 2598 ODI ASN A 326 17.632 85.325 7.495 1.00 83.34 ATOM 2599 ND2 ASN A 326 17.224 84.386 8.171 1.00 83.34 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.53 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2608 NZ LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2609 C LYS A 327 19.033 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.58 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2614 CG ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2615 ODI ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2615 ODI ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2616 ND2 ASN A 328 18.717 78.637 1.947 1.00 56.59 ATOM 2616 ND2 ASN A 328 18.717 78.637 1.947 1.00 56.59 ATOM 2616 ND2 ASN A 328 18.717 78.637 1.947 1.00 56.59 ATOM 2616 ND2 ASN A 328 18.717 78.637 1.947 1.00 56.59 ATOM 2616 ND2 ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.617 80.291 2.645 1.00 61.61 ATOM 2620 CA GLY A 329 14.604 77.939 2.645 1.00 63.44 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2623 N GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2623 N GLY A 329 14.604 77.939 2.645 1.00 63.64 AT		2596	CB	ASN A	326					
ATOM 2598 ND2 ASN A 326 17.224 84.386 7.920 1.00 79.40 ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.53 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2604 CB LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.58 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 55.30 ATOM 2613 CB ASN A 328 18.186 79.980 1.439 1.00 59.34 ATOM 2614 CG ASN A 328 18.186 79.980 1.439 1.00 59.34 ATOM 2615 CB ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2617 C ASN A 328 20.226 77.327 0.562 1.00 64.52 ATOM 2618 O ASN A 328 16.657 80.013 1.498 1.00 55.74 ATOM 2619 N GLY A 329 16.117 80.291 2.645 1.00 65.59 ATOM 2610 C ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2620 CA GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 63.64 ATOM 2622 O GLY A 329 13.973 79.011 2.645 1.00 63.64 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 63.64			CG	ASN A	326	17.632				
ATOM 2599 ND2 ASN A 326 17.590 86.582 7.920 1.00 79.40 ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.53 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2606 CD LYS A 327 21.277 83.218 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 50.58 ATOM 2612 CA ASN A 328 18.868 81.088 2.109 1.00 56.30 ATOM 2613 CB ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.185 79.980 1.439 1.00 56.30 ATOM 2614 CG ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2614 CG ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2614 CG ASN A 328 18.517 78.637 1.947 1.00 59.34 ATOM 2616 ND2 ASN A 328 10.052 79.056 1.725 1.00 64.52 ATOM 2617 C ASN A 328 10.052 79.056 1.725 1.00 65.59 ATOM 2616 ND2 ASN A 328 10.657 80.013 1.498 1.00 56.83 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2618 O ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 57.93 ATOM 2620 CA GLY A 329 16.117 80.291 2.685 1.00 65.59 ATOM 2621 C GLY A 329 16.117 80.291 2.685 1.00 65.59 ATOM 2621 C GLY A 329 16.617 80.340 2.645 1.00 63.64 1.00 57.93 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 1.00 62.51 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 1.00 63.64 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.64 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 1.00 63.6			ODl	ASN A	326					
ATOM 2600 C ASN A 326 18.169 83.663 4.068 1.00 65.33 ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 67.11 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 24.262 85.605 2.584 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2600 C LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2611 N ASN A 328 18.866 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2614 CG ASN A 328 18.186 79.980 1.439 1.00 59.34 ATOM 2615 OD1 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2617 C ASN A 328 20.104 78.345 1.410 1.00 65.59 ATOM 2618 O ASN A 328 20.266 77.327 0.562 1.00 65.59 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 57.93 ATOM 2620 CA GLY A 329 13.973 79.011 2.645 1.00 63.64 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 63.64 ATOM 2622 O GLY A 329 13.973 79.011 2.645 1.00 63.64 ATOM 2623 N GLN A 330 11.665 79.134 2.426 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.64				ASN A	326	17.590	86.582			
ATOM 2601 O ASN A 326 17.254 83.861 3.274 1.00 59.01 ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 59.01 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 23.511 84.317 2.266 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2615 OD1 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 20.266 77.327 0.562 1.00 65.59 ATOM 2617 C ASN A 328 10.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2620 CA GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 63.44 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2623 N GLN A 330 11.667 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 11.667 79.134 2.426 1.00 63.44				ASN A	326	18.169	83.663			
ATOM 2602 N LYS A 327 19.413 83.404 3.681 1.00 54.20 ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 23.511 84.317 2.266 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.262 85.605 2.584 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 55.80 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 57.74 ATOM 2619 N GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2620 CA GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2621 C GLY A 329 14.604 77.939 2.645 1.00 63.44 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.44 ATOM 2623 N GLN A 330 11.665 79.134 2.426 1.00 63.44					326	17.254	83.861			
ATOM 2603 CA LYS A 327 19.761 83.355 2.263 1.00 54.20 ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 23.511 84.317 2.266 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 64.52 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2619 N GLY A 329 14.678 80.340 2.864 1.00 57.74 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 59.02 ATOM 2621 C GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2622 O GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44						19.413	83.404			
ATOM 2604 CB LYS A 327 21.277 83.218 2.095 1.00 53.73 ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 24.262 84.517 2.266 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.262 85.605 2.584 1.00 58.17 ATOM 2608 NZ LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 64.52 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 57.93 ATOM 2619 N GLY A 329 16.17 80.291 2.684 1.00 57.93 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2622 O GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.64 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.64 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.64						19.761	83.355	2.263		
ATOM 2605 CG LYS A 327 22.021 84.515 2.327 1.00 53.84 ATOM 2606 CD LYS A 327 23.511 84.317 2.266 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2611 N ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2615 OD1 ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 64.52 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 55.89 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.64 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.64 ATOM 2623 N GLN A 330 11.647 78.088 2.186 1.00 62.51							83.218	2.095		
ATOM 2606 CD LYS A 327 23.511 84.317 2.266 1.00 60.90 ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2611 N ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2612 CA ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 62.04 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 63.66 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.66							84.515	2.327	1.00	
ATOM 2607 CE LYS A 327 24.262 85.605 2.584 1.00 61.87 ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2622 O GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.66							84.317	2.266	1.00	
ATOM 2608 NZ LYS A 327 24.203 86.582 1.467 1.00 58.17 ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2618 O ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2623 N GLN A 329 14.664 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 339 12.665 79.134 2.426 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.66							85.605	2.584	1.00	
ATOM 2609 C LYS A 327 19.033 82.256 1.500 1.00 51.14 ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2616 ND2 ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.646 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.464 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.464 ATOM 2623 N GLN A 330 11.664 77.8088 2.186 1.00 62.51							86.582	1.467	1.00	58.17
ATOM 2610 O LYS A 327 18.610 82.472 0.370 1.00 50.58 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 51.00 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2618 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 61.61 ATOM 2622 O GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.64 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44								1.500	1.00	51.14
ATOM 2610 O LIS A 327 18.868 81.088 2.109 1.00 51.00 ATOM 2611 N ASN A 328 18.868 81.088 2.109 1.00 56.30 ATOM 2612 CA ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2613 CB ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2618 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 61.61 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.464 ATOM 2623 N GLN A 330 11.6647 78.088 2.186 1.00 62.51									1.00	50.58
ATOM 2611 N ASN A 328 18.186 79.980 1.439 1.00 56.30 ATOM 2612 CA ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2613 CB ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2617 C ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 61.61 ATOM 2623 N GLN A 329 14.664 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.66	ATOM								1.00	51.00
ATOM 2612 CA ASN A 328 18.717 78.637 1.947 1.00 59.34 ATOM 2613 CB ASN A 328 20.104 78.345 1.410 1.00 62.04 ATOM 2614 CG ASN A 328 20.104 78.345 1.410 1.00 64.52 ATOM 2615 OD1 ASN A 328 21.052 79.056 1.725 1.00 64.52 ATOM 2616 ND2 ASN A 328 20.226 77.327 0.562 1.00 65.59 ATOM 2616 ND2 ASN A 328 16.657 80.013 1.498 1.00 56.83 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2618 O ASN A 328 15.976 79.760 0.505 1.00 57.74 ATOM 2619 N GLY A 329 16.117 80.291 2.684 1.00 59.02 ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 61.61 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.64 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 62.51	MOTA	2611								56.30
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ATOM 2620 CA GLY A 329 14.678 80.340 2.864 1.00 57.93 ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 61.61 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 12.667 78.088 2.186 1.00 62.51			N	GLY A	329					
ATOM 2621 C GLY A 329 13.973 79.011 2.645 1.00 61.61 ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 62.51				GLY A	329					
ATOM 2622 O GLY A 329 14.604 77.939 2.645 1.00 63.66 ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 11.647 78.088 2.186 1.00 62.51				GLY A	329	13.973				
ATOM 2623 N GLN A 330 12.665 79.134 2.426 1.00 63.44 ATOM 2623 N GLN A 330 11.647 78.088 2.186 1.00 62.51						14.604				
ATOM 2.186 1.00 62.51						12.665				
AION EVE							78.088	2.186	1.00	62.51
	ATOM	2024								

ATOM	2625	СВ	GLN A	330	12.152	76.612	2.170	1.00	61.84
ATOM	2626	CG	GLN A	330	11.146	75.609	1.460	1.00	62.53
MOTA	2627	CD	GLN A	330	11.591	74.116	1.364	1.00	61.91
MOTA	2628	OE1	GLN A	330	10.948	73.200	1.946	1.00	56.42
MOTA	2629	NE2	GLN A	330	12.658	73.864	0.605	1.00	56.02
MOTA	2630	С	GLN A	330	10.703	78.366	3.357	1.00	61.76
ATOM	2631	0	GLN A	330	11.044	78.121	4.511	1.00	61.59
MOTA	2632	N	THR A	331	9.623	79.069	3.018	1.00	61.83
MOTA	2633	CA	THR A	331	8.542	79.549	3.891	1.00	57.39
MOTA	2634	СВ	THR A	331	8.685	79.154	5.400	1.00	46.65
MOTA	2635	OG1	THR A	331	8.904	77.740	5.517	1.00	38.61
MOTA	2636	CG2	THR A	331	7.378	79.483	6.144	1.00	48.69
MOTA	2637	С	THR A	331	8.427	81.085	3.668	1.00	59.73
MOTA	2638	0	THR A	331	8.586	81.496	2.495	1.00	55.52
MOTA	2639	OT	THR A	331	8.131	81.869	4.601	1.00	62.34
ATOM	2640	MN	MN A	350	10.357	71.058	3.078	1.00	32.10
MOTA	2641	MN	MN A	351	16.765	98.946	-5.069	1.00	40.59
END									
END									

- 79 -Table 3 46.800 71.500 101.000 90.00 90.00 90.00 CRYST1 0.000000 0.021368 0.000000 0.000000 SCALE1 0.000000 0.000000 0.013986 SCALE2 0.000000 0.000000 0.009901 0.000000 0.000000 SCALE3 1.00 7.93 36.323 5.699 17.235 ACV 1 ATOM 1.00 7.47 6.165 -5.798 36.590 ACV 1 C2 2 ATOM 1.00 6.42 37.802 5.425 15.215 ACV 3 C3 ATOM 1.00 7.71 5.918 13.766 38.091 ACV 1 C4 ATOM 1.00 8.43 39.380 5.168 13.330 C7 ACV 1 5 MOTA 5.584 1.00 8.88 39.669 11.912 ACV 1 C10 MOTA 6 4.714 1.00 6.98 39.447 ACV 1 10.931 N11 7 ATOM 4.858 1.00 7.75 39.719 ACV 9.503 1 8 C12 ATOM 1.00 7.09 4.657 8.767 38.397 C13 ACV 1 9 MOTA 1.00 8.98 36.747 7.696 15.791 ACV 1 10 N14 MOTA 6.715 1.00 11.68 40.061 11.566 015 ACV 11 MOTA 1.00 7.15 3.765 40.743 ACV 1 9.131 12 C16 ATOM 1.00 8.44 2.102 9.513 40.068 ACV 1 S17 13 MOTA 9.78 1.00 37.306 4.670 9.269 018 ACV 1 14 ATOM 8.96 1.00 36.442 6.549 019 ACV 1 18.173 ATOM 15 7.91 1.00 4.492 36.068 17.393 ACV 020 16 MOTA 1.00 9.16 4.604 7,424 38.510 1 ACV 17 N29 ATOM 9.68 1.00 4.409 37.341 6.543 1 18 C30 ACV ATOM 1.00 10.48 5.318 37.433 5.317 ACV 1 C31 19 ATOM 1.00 12.78 2.912 1 6.104 37.147 ACV C32 MOTA 2.0 1.00 11.31 2.039 36.829 7.348 1 ACV MOTA 21 C33 1.00 18.82 2.564 1 5.562 38.560 C37 ACV 22 MOTA 1.00 10.58 6.210 38.298 5.240 1 23 042 ACV MOTA 9.69 1.00 5.151 4.417 36.560 ACV 1 043 MOTA 24 1.00 25.69 2.417 14.100 2 13.002 SUL 25 s ATOM 3.492 1.00 32.83 14.598 13.804 SUL 25 01 MOTA 1.00 41.91 1.424 13.558 SUL 2 13.918 02 27 ATOM 30.42 1.00 13.073 2.934 12,155 2 SUL 03 MOTA 28 21.23 1.00 15.076 1.614 2 12.299 SUL 04 29 MOTA 0.544 1.00 7.64 40.943 1000 7.903 IUM FE MOTA 30 1.00 42 72 -1.402 3 -15.013 47.966 SER N 31 MOTA 39.06 1.00 -1.445 3 -14.317 46.679 SER 32 CA ATOM 1.00 36.17 -2.052 3 -12.942 46.953 SER C 33 MOTA -2.493 1.00 41.73 48.077 SER 3 -12.712 ٥ 34 MOTA 42.74 1.00 -2.197 3 -14.951 45.513 SER 35 CB MOTA 52.50 1.00 -3.613 45.578 3 -14.920 OG SER 36 MOTA 1.00 33.45 -2.096 45.917 4 -12.127 37 N VAL MOTA 30.02 1.00 -2.708 46.077 4 -10.801 CA VAL MOTA 38 26.11 -3.983 1.00 45.243 -10.826 VAL ATOM 39 С 1.00 26.45 -3.995 -11.331 44.137 VAL 40 o MOTA 32.20 -1.751 1.00 45.600 -9.693 CB VAL 4 41 ATOM 1.00 31.47 -2.407 45.544 VAL 4 -8.324 CG1 42 ATOM 39.65 -0.434 1.00 46.380 4 -9.619 VAL ATOM 43 CG2 1.00 28.73 -7.342 -9.685 46.084 SER 44 CB MOTA 43.87 1.00 -8.413 46.429 -10.494 5 45 OG SER ATOM 21.38 1.00 43.958 -6.292 -9.128 SER 5 С MOTA 46 17.45 -5.558 1.00 44.094 5 -8.126 SER MOTA 47 0 45.742 -5.071 1.00 22.91 5 -10.297 SER 48 N ATOM -6.347 1.00 24.13 45.050 -10.216 CA SER 49 ATOM 20.27 1.00 -7.057 42.900 -9.338 6 LYS ATOM 50 18.92 1.00 41.770 -7.199 LYS 6 -8.400 CA ATOM 51 25.88 -7.644 1.00 40.516 -9.148 LYS 6 52 CB MOTA 1.00 33.15 -8.620 6 -8.452 39.606 LYS CG 53 MOTA 1.00 36.92 -8.377 -8.676 38.116 6 54 CD LYS MOTA 40.48 -9.627 1.00 -9.217 37.434 LYS 6 CE ATOM 55 49.46 -10.180 1.00 38.278 ΝZ LYS 6 -10.331 56 MOTA 1.00 16.57 -8.167 42.178 -7.302 LYS 57 С MOTA 19.33 1.00 -9.294 42.719 6 -7.476 LYS 58 0 MOTA 13.66 -7.756 1:00 41.933 -6.060 7 N ALA MOTA 59 12.78 -8.572 1.00 42.175 -4.879 ALA 7 CA 60 MOTA -7.716 1.00 14.08 -3.616 42.083 7 ALA MOTA 61 CB 12.30 1.00 -9.678 -4.803 41.135 7 62 С ALA MOTA 1.00 13.11 -9.497 39.957 -5.069 ALA 7 0 ATOM 63 15.13 -10.844 1.00 41.585 8 -4.325 ASN N ATOM 64 1.00 16 54 -11.913 40.653 -4.026 ASN 65 CA ATCM 24.27 -13.197 1.00 41.448 -3.650 R CB ASN 66 ATOM 29.61 1.00 -14.298 40.597 ASN 8 -4.274 CG 67 ATOM 35.60 -14.787 1.00 39.640 -3.669 ASN R 001 ATCM 68 43.75 -14.477 1.00 40.986 ASN В -5.528

ND2

69

MOTA

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	70	С	ASN	8	-2.738	39.882	-11.623	1.00	13.63
MOTA MOTA	71	0	ASN		-1.648	40.451	-11.691	1.00	16.79 11.43
ATOM	72	N	VAL	-	-2.918	38.611	-11.303 -11.016	1.00	10.00
ATOM	73	CA	VAL		-1.809	37.707 37.383	-9.522	1.00	10.55
MOTA	74	CB	VAL	-	-1.770 -0.548	36.537	-9.229	1.00	10.77
MOTA	75	CG1	VAL	_	-1.726	38.675	-8.725	1.00	11.32
MOTA	76	CG2	VAL VAL	9	-1.955	36.422	-11.845	1.00	10.66
MOTA	77	С 0	VAL	9	-2.621	35.466	-11.464	1.00	14.19
ATOM	78 79	N	PRO	10	-1.385	36.425	-13.059	1.00	9.44
ATOM	80	CD	PRO	10	-0.544	37.474	-13.650	1.00 1.00	10.90 10.48
ATOM ATOM	81	CA	PRO	10	-1.565	35.299	-13.942	1.00	12.92
ATOM	82	CB	PRO	10	-0.901	35.749	-15.235 -14.937	1.00	15.89
ATOM	83	CG	PRO	10	-0.067	36.924	-13.444	1.00	9.89
ATOM	84	С	PRO	10	-0.883	34.026 34.091	-12.734	1.00	10.22
MOTA	85	0	PRO	10	0.125	32.896	-13.847	1.00	9.52
MOTA	86	N	LYS	11 11	-1.414 -0.815	31.597	-13.586	1.00	9.53
ATOM	87	CA	LYS LYS	11	-1.885	30.560	-13.230	1.00	12.58
ATOM	88	CE CG	LYS	11	-2.651	30.971	-11.965	1.00	18.45
MOTA	89 90	CD	LYS	11	-3.746	30.048	-11.504	1.00	23.78 25.46
ATOM ATOM	91	CE	LYS	11	-4.685	30.872	-10.629	1.00 1.00	27.77
ATOM	92	NZ	LYS	11	-4.154	31.101	-9.250	1.00	10.29
ATOM	93	c	LYS	11	0.020	31.211	-14.803 -15.926	1.00	16.95
ATOM	94	0	LYS	11	-0.482	31.172	-14.640	1.00	8.18
ATOM	95	N	ILE	12	1.301	31.019 30.697	-15.742	1.00	8.29
MOTA	96	CA	ILE	12	2.214 3.358	31.733	-15.815	1.00	8.64
MOTA	97	CB	ILE ILE	12 12	4.366	31.311	-16.864	1.00	9.33
ATOM	98	CG2 CG1	ILE	12	2.860	33.160	-16.018	1.00	9.90
MOTA	99 100	CD1	ILE	12	3.945	34.238	-15.984	1.00	10.28
ATOM	101	C	ILE	12	2.749	29.284	-15.513	1.00	7.89 7.80
ATOM ATOM	102	ō	ILE	12	3.346	28.974	-14.504	1.00 1.00	8.72
ATOM	103	N	ASP	13	2.542	29.428	-16.522 -16.533	1.00	8.16
MOTA	104	CA	ASP	13	3.109	27.068	-17.536	1.00	9.68
ATOM	105	CB	ASP	13	2.391	25.193 24.928	-17.728	1.00	11.65
MOTA	106	CG	ASP	13	2.947 4.047	24.478	-17.257	1.00	10.88
MOTA	107	OD1	ASP	13 13	2.283	24.013	-18.401	1.00	19.22
MOTA	108	OD2	ASP ASP	13	4.601	27.248	-16.838	1.00	7.72
MOTA	109	0	ASP	13	5.005	27.527	-17.990	1.00	9.02
MOTA	110 111	и	VAL	14	5.413	26.983	-15.825	1.00	8.27
MOTA	112	CA	VAL	14	6.862	27.170	-15.947	1.00	8.27 8.09
ATOM ATOM	113	CB	VAL	14	7.453	27.766	-14.680	1.00 1.00	9.81
ATOM	114	CG1	VAL	14	6.890	29.164	-14.465 -13.458	1.00	8.58
ATOM	115	CG2	VAL	14	7.298	26.882	-16.328	1.00	8.98
ATOM	116	С	VAL	14	7.592	25.910 25.950	-16.464	1.00	10.04
MOTA	117	0	VAL	14	8.815 6.851	24.822	-16.531	1.00	9.65
MOTA	118	11	SER	15 15	7.532	23.572	-16.883	1.00	9.94
MOTA	119	CA	SER	15	6.548	22.411	-16.994	1.00	10.80
MOTA	120	CB QG	SER SER	15	5.618	22.532	-18.063	1.00	12.34
MOTA	121 122	c	SER	15	8.469	23.599	-18.070	1.00	9.33
ATOM	123	0	SER	15	9.519	22.915	-18.009	1.00	9.96 10.18
ATOM ATOM	124	N	PRO	16	8.218	24.364	-19.141	1.00 1.00	9.79
ATOM	125	CD	PRO	16	7.026	25.108	-19.546	1.00	10.12
ATOM	126	CA	PRO	16	9.220	24.381	-20.209 -21.226	1.00	10.60
ATOM	127	CB	PRO	16	8.629	25.357 25.247	-21.015	1.00	11.12
MOTA	128	CG	PRO	16	7.127	24.909	-19.807	1.00	9.66
MOTA	129	С	PRO	16		24.613	-20.444	1.00	11.72
MOTA	130	0	PRO	16 17		25.693	-18.711	1.00	10.05
MOTA	131	И	LEU	17		26.232	-18.288	1.00	10.06
MOTA	132	CA	LEU LEU	17		27.358	-17.276	1.00	8.52
MOTA	133	CB	LEU	17		28.598	-17.808	1.00	9.04
ATOM	134	CD1		17		29.540	-16.622	1.00	9.12
ATOM	135 136	CD		17		29.314	-18.922	1.00	10.89
MOTA	136	C C	LEU	17		25.183	-17.692	1.00	11.62
MOTA	138	ō	LEU	17	14.087	25.442	-17.466	1.00	12.52 11.77
MOTA MOTA	139	N	PHE	18		23.970	-17.499	1.00 1.00	12.92
ATOM	140	CA	PHE	18		22.862	-17.065 -16.180	1.00	12.94
ATOM	141	СВ	PHE	18		21.947 22.571	-14.820	1.00	13.53
ATOM	142	CG	PHE	18	12.070	22.311			

					- 0 .	, -			
ATOM	143	CD1	PHE	18	10.872	23.207	-14.598	1.00	17.84
ATOM	144	CD2	PHE	18	12.965	22.503	-13.766	1.00	14.00
ATOM	145	CE1	PHE	18	10.537	23.720	-13.359	1.00	17.86
NOTA	146	CE2	PHE	18	12.638	22.974	-12.519 -12.326	1.00 1.00	14.38 15.20
MOTA	147	CZ	PHE	18 18	11.444 13.768	23.614 22.054	-18.231	1.00	14.72
MOTA	148 149	С 0	PHE PHE	18	14.567	21.129	-18.012	1.00	17.55
MOTA MOTA	150	И	GLY	19	13.321	22.349	-19.445	1.00	15.60
ATOM	151	CA	GLY	19	13.718	21.513	-20.583	1.00	17.05
MOTA	152	С	GLY	19	14.489	22.248	-21.663	1.00	16.88
MOTA	153	0	GLY	19	15.092	23.280	-21.384	1.00	16.84
ATOM	154	N	ASP	20	14.471	21.679	-22.868 -23.997	1.00 1.00	18.23 19.57
ATOM	155	CA	ASP ASP	20 20	15.241 14.418	22.147 22.595	-25.186	1.00	16.96
ATOM	156 157	с 0	ASP	20	14.976	22.646	-26.285	1.00	18.78
ATOM ATOM	158	CB	ASP	20	16.172	21.025	-24.491	1.00	25.96
ATOM	159	CG	ASP	20	16.954	20.446	-23.320	1.00	30.78
ATOM	160	OD1	ASP	20	17.102	19.208	-23.399	1.00	38.92
ATOM	161	OD2	ASP	20	17.315	21.213	-22.393	1.00 1.00	40.12 16.58
ATOM	162	N	ASP	21	13.161 12.383	22.913 23.435	-25.013 -26.145	1.00	16.91
ATOM	163	CA CB	asp asp	21 21	10.920	23.435	-25.985	1.00	18.23
ATOM ATOM	164 165	CG	ASP	21	10.023	23.362	-27.142	1.00	20.86
ATOM	166	ODi	ASP	21	10.313	24.380	-27.796	1.00	21.70
ATOM	167	OD2	ASP	21	8.968	22.756	-27.430	1.00	27.79
ATOM	168	С	ASP	21	12.561	24.961	-26.116	1.00 1.00	14.20 12.84
ATOM	169	0	ASP	21	11.892	25.648 25.500	-25.343 -26.887	1.00	15.68
MOTA	170	N	GLN GLN	22 22	13.504 13.813	26.915	-26.764	1.00	13.82
ATOM ATOM	171 172	CA CB	GLN	22	15.048	27.347	-27.545	1.00	13.58
ATOM	173	CG	GLN	22	16.257	26.474	-27.348	1.00	15.37
ATOM	174	CD	GLN	22	16.663	26.189	-25.918	1.00	16.56
ATOM	175	OEl	GLN	22	16.485	27.042	-25.067	1.00	19.01 19.39
ATOM	176	NE2	GLN	22	17.205	24.984 27.819	-25.728 -27.116	1.00 1.00	13.52
ATOM	177	С 0	GLN GLN	22 22	12.654 12.484	28.853	-26.449	1.00	11.96
ATOM ATOM	178 179	N	ALA	23	11.890	27.480	-28.125	1.00	16.53
ATOM	180	CA	ALA	23	10.739	28.320	-28.488	1.00	16.41
ATOM	181	CB	ALA	23	10.088	27.855	-29.796	1.00	22.56
MOTA	182	С	ΑĽΑ	23	9.715	28.331	-27.352	1.00 1.00	13.99 13.68
ATOM	183	0	ALA	23	9.120 9.451	29.380 27.160	-27.065 -26.761	1.00	13.08
ATOM	184	N CA	ALA ALA	24 24	8.481	27.122	-25.650	1.00	11.55
ATOM ATOM	185 186	CB	ALA	24	8.214	25.694	-25.217	1.00	13.62
ATOM	187	С	ALA	24	8.988	27.977	-24.524	1.00	9.62
ATOM	188	0	ALA	24	8.213	28.627	-23.815	1.00	9.80
ATOM	189	N	LYS	25	10.278	27.958	-24.263	1.00 1.00	10.01 9.16
ATOM	190	CA	LYS	25	10.844 12.332	28.781 28.472	-23.178 -23.004	1.00	9.87
ATOM	191	CB CG	LYS LYS	25 25	12.500	27.128	-22.327	1.00	13.94
ATOM ATOM	192 193	CD	LYS	25	14.077	27.106	-21.852	1.00	21.25
ATOM	194	CE	LYS	25	14.817	25.974	-22.406	1.00	24.07
MOTA	195	NZ	LYS	25	16.254	26.073	-22.150	1.00	19.05
MOTA	196	С	LYS	25	10.657	30.249	-23.474 -22.566	1.00 1.00	7.92 B.19
MOTA	197	0	LYS	25	10.375 10.811	31.042 30.662	-24.728	1.00	8.75
MOTA	198	N CA	MET MET	26 26	10.564	32.085	-25.068	1.00	9.12
ATOM ATOM	199 200	СВ	MET	26	10.903	32.408	-26.546	1.00	9.73
ATOM	201	CG	MET	26	12.399	32.424	-26.816	1.00	10.03
ATOM	202	SD	MET	26	13.322	33.724	-25.970	1.00	10.21
ATOM	203	CE	MET	26	13.056	35.132	-27.066 -24.804	1.00 1.00	10.95 8.72
MOTA	204	C	MET	26	9.115	32.487 33.594	-24.804	1.00	8.27
ATOM	205	O	MET ARG	26 27	8.828 8.163	31.585	-25.091	1.00	8.42
MOTA MOTA	206 207	n Ca	ARG	27	6.767	31.903	-24.809	1.00	9.14
ATOM	207	CB	ARG	27	5.842	30.894	-25.505	1.00	10.27
ATOM	209	CG	ARG	27	5.895	31.042	-27.031	1.00	11.63
ATOM	210	CD	ARG	27	4.969	30.149	-27.808	1.00	15.41
MOTA	211	NE	ARG	27	5.322	28.732 28.016	-27.657 -28.551	1.00	17.68 17.12
ATOM	212	CZ NH1	ARG ARG	27 27	5.998 6.271	26.720	-28.347	1.00	18.08
ATOM ATOM	213 214	NH1 NH2	ARG	27	6.357	28.591	-29.680	1.00	19.32
ATOM	214	C	ARG	27	6.496	32.020	-23.319	1.00	9.48

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	22.6	0	ARG	27	5.649	32.854	-22.925	1.00	9.79
ATOM	216 217	N	VAL	28	7.214	31.249	-22.488	1.00	7.80
ATCM ATCM	218	CA	VAL	28	7.129	31.447	-21.039	1.00	7.80
ATOM	219	CB	VAL	28	7.799	30.307	-20.275	1.00	8.02
ATOM	220	CG1	VAL	28	7.803	30.582	-18.782	1.00	9.37 10.98
MOTA	221	CG2	VAL	28	7.194	28.970	-20.553	1.00 1.00	7.31
ATOM	222	С	VAL	28	7.743	32.786	-20.643 -19.853	1.00	7.76
MOTA	223	0	VAL	28	7.164	33.556 33.096	-21.235	1.00	7.04
MOTA	224	N	ALA	29 29	8.909 9.578	34.368	-20.949	1.00	7.37
ATOM	225 226	CA CB	ALA ALA	29	10.870	34.447	-21.743	1.00	7.98
ATOM	227	C	ALA	29	8.691	35.579	-21.233	1.00	7.31
MOTA MOTA	228	ō	ALA	29	8.662	36.547	-20.478	1.00	8.13
ATOM	229	N	GLN	30	7.902	35.483	-22.319	1.00	7.11
ATOM	230	CA	GLN	30	7.001	36.576	-22.637	1.00	7.56 8.19
ATOM	231	СВ	GLN	30	6.261	36.323	-23.976	1.00 1.00	8.58
ATOM	232	CG	GLN	30	5.378	37.456	-24.427 -23.845	1.00	8.95
MOTA	233	CD	GLN	30	3.966	37.535 36.491	-23.534	1.00	10.78
MOTA	234	OE1	GLN	30 30	3.396 3.570	38.741	-23.481	1.00	9.99
ATOM	235	NE2 C	GLN GLN	30	6.005	36.784	-21.497	1.00	6.94
ATOM	236 237	0	GLN	30	5.631	37,936	-21.231	1.00	8.27
MOTA MOTA	238	N	GLN	31	5.464	35.677	-20.996	1.00	7.41
ATOM	239	CA	GLN	31	4.470	35.750	-19.933	1.00	7.30
ATOM	240	СЗ	GLN	31	3.924	34.357	-19.675	1.00	8.13
MOTA	241	CG	GLN	31	3.117	33.748	-20.829	1.00	9.37 11.83
ATOM	242	CD	GLN	31	2.722	32.316	-20.493 -19.656	1.00	15.21
MOTA	243	OE1	GLN	31	1.843 3.391	32.090 31.367	-21.108	1.00	18.42
MOTA	244	NE2	GLN GLN	31 31	5.093	36.370	-18.681	1.00	7.43
ATOM	245	с 0	GLN	31	4.459	37.197	-18.024	1.00	7.98
MOTA	246 247	и	ILE	32	6.326	36.030	-18.367	1.00	6.96
MOTA MOTA	248	CA	ILE	32	7.047	36.640	-17.258	1.00	7.29
ATOM	249	СВ	ILE	32	8.389	35.925	-17.010	1.00	7.37
MOTA	25C	CG2	ILE	32	9.254	36.685	-16.004	1.00 1.00	9.11 7.84
MOTA	251	CG1	ILE	32	8.126	34.504	-16.497 -16.390	1.00	9.10
MOTA	252	CD1	ILE	32	9.335	33.611 38.139	-17.496	1.00	7.13
MOTA	253	С	ILE	32 32	7.235 7.023	38.945	-16.602	1.00	8.31
MOTA	254	О	ILE ASP	33	7.632	38.515	-18.717	1.00	7.76
ATOM	255 256	CA	ASP	33	7.801	39.927	-19.072	1.00	8.04
MOTA MOTA	257	CB	ASP	33	8.257	40.026	-20.550	1.00	8.19
ATOM	258	CG	ASP	33	8.447	41.482	-20.994	1.00	8.88
MOTA	259	001	ASP	33	9.429	42.118	-20.550	1.00	9.63 9.07
ATOM	260	002	ASP	33	7.560	41.941	-21.792 -18.835	1.00 1.00	7.95
MOTA	261	С	ASP	33	6.480	40.675 41.751	-18.200	1.00	8.54
MOTA	262	0	ASP	33	6.480 5.357	40.154	-19.355	1.00	8.10
ATOM	263	N	ALA ALA	34 34	4.079	40.834	-19.202	1.00	8.69
ATOM	264	CA CB	ALA	34	2.993	40.062	-19.938	1.00	9.24
ATOM	265 266	C	ALA	34	3.709	41.028	-17.735	1.00	8.36
MOTA MOTA	267	ō	ALA	34	3.284	42.105	-17.299	1.00	9.82
ATOM	268	N	ALA	35	3.903	39.967	-16.933	1.00	8.64
MOTA	269	CA	ALA	35	3.505	40.093	-15.538	1.00	9.10 11.05
ATOM	270	CB	ALA	35	3.527	38.723	-14.870 -14.779	1.00 1.00	9.17
ATOM	271	С	ALA	35	4.423	41.047 41.822	-13.942	1.00	10.62
ATOM	272	0	ALA	35 36	3.968 5.709	41.042	-15.146	1.00	8.20
MOTA	273	N	SER SER	36	6.683	41.896	-14.467	1.00	7.99
MOTA	274	CA CB	SER	36	8.108	41.485	-14.830	1.00	8.90
ATOM	275 276	OG	SER	36	8.354	40.129	-14.485	1.00	8.75
MOTA MOTA	277	c	SER	36	6.436	43.364	-14.801	1.00	9.43
ATOM	278	ō	SER	36	6.761	44.224	-13.994	1.00	12.45
ATOM	279	N	ARG	37	5.871	43.633	-15.993	1.00	9.00 10.53
ATOM	280	CA	ARG	37	5.572	44.996	-16.415	1.00 1.00	10.53
ATOM	281	CB	ARG	37	5.685	45.095	-17.931 -18.544	1.00	12.00
ATOM	282	CG	ARG	37	7.046	44.858 44.615	-20.051	1.00	14.37
MOTA	283	CD	ARG	37	7.074 6.514	45.706	-20.881	1.00	15.54
MOTA	284	NE	ARG ARG	37 37	6.327	45.575	-22.190	1.00	15.00
ATOM	285	CZ NH1		37	6.682	44.430	-22.781	1.00	16.31
ATOM	286 287	NH2	_	37	5.812	46.595	-22.875	1.00	14.87
MOTA MOTA	288	C	ARG	37	4.204	45.459	-15.925	1.00	11.82
2101		-							

NOW 150						- 03				
ATOM 290	A TOM	269	0	ARG	37	3.914	46.654	-15.947		
ATON 991 CA ASP 38 2.045 (4.889 14.796 1.00 16.65 ATON 292 CB ASP 38 1.017 41.806 1.1.05 1.00 16.65 ATON 293 CG ASP 38 -0.471 44.1.80 1.1.00 17.00 ATON 293 CD ASP 38 -0.761 44.1.80 1.1.00 17.00 ATON 295 OD2 ASP 38 -0.761 44.1.20 1.1.52 (21 1.00 22.39 ATON 295 OD2 ASP 38 -1.1.10 45.1.20 1.1.00 17.00 ATON 295 OD2 ASP 38 -1.1.10 45.1.20 1.1.5 (21 1.00 1.00 1.1.71 ATON 296 N THR 39 1.4.16 44.073 1.12.904 1.1.00 11.71 ATON 300 CB THR 39 1.4.15 44.205 1.1.298 1.1.00 11.56 ATON 301 OD1 THR 39 0.607 41.990 1.0.584 1.0.00 11.75 ATON 302 CG2 THR 39 1.406 44.073 1.12.737 1.0.0 11.56 ATON 301 OD THR 39 0.607 41.990 1.0.584 1.0.0 11.75 ATON 302 CG2 THR 39 1.006 41.990 1.0.584 1.0.0 11.75 ATON 304 O THR 39 2.721 41.776 1.0.698 1.1.00 11.75 ATON 305 N GLY 40 4.618 41.179 1.1.231 1.0.0 11.57 ATON 306 CA GLY 40 4.618 41.179 1.1.271 1.0.0 1.1.57 ATON 309 N PHE 41 3.3.61 41.179 1.1.115 1.0.0 1.0.117 ATON 309 N PHE 41 3.3.07 3.510 41.117 1.1.00 1.0.54 ATON 310 CA GLY 40 4.618 41.179 1.1.115 1.0.0 1.0.117 ATON 310 CA BHE 41 3.307 3.510 4.1.315 1.0.0 1.0.0 1.2.73 ATON 310 CA BHE 41 3.307 3.5207 -2.522 1.1.077 1.00 6.63 ATON 310 CA BHE 41 3.307 3.510 4.1.316 1.0.0 1.0.0 1.2.73 ATON 310 CA BHE 41 3.307 3.510 4.1.316 1.0.0 1.0.0 1.2.73 ATON 310 CA BHE 41 3.307 3.510 4.1.316 1.0.0 1.0.0 1.2.73 ATON 310 CA BHE 41 3.307 3.510 4.1.316 1.0.0 1.0.0 1.2.73 ATON 311 CB PHE 41 3.307 3.500 4.700 3.500 4.700 3.					38	3.367				
ATCH 292 CB ASP 38 - 0.441 44.105 -15.173 1.00 17.06 ATCH 292 CB ASP 38 - 0.763 A 52.78 - 14.4.922 1.100 22.39 ATCH 295 CD ASP 38 - 0.763 A 52.78 - 14.4.922 1.100 22.39 ATCH 295 CD ASP 38 -1.316 43.219 -15.263 1.00 20.09 ATCH 296 C ASP 38 2.102 45.08 13.219 -15.263 1.00 12.09 ATCH 297 C ASP 38 2.102 45.08 13.219 -15.263 1.00 14.27 ATCH 297 C ASP 38 2.102 46.508 13.455 1.00 11.405 14.27 ATCH 297 C ASP 38 2.102 44.073 12.277 1.100 11.56 ATCH 297 C A				ASP						
ATCK: 293 CG ASP 38 -0.745 4.5.278 -14.992 1.00 22.39 ATCK: 294 ODD. APP 38 -1.316 4.5.278 -14.992 1.00 22.39 ATCK: 295 ODE APP 38 -1.316 4.5.278 -15.261 1.00 20.09 ATCK: 295 ODE APP 38 -1.316 4.5.278 -15.261 1.00 20.09 ATCK: 297 OD ASP 28 2.736 4.5.927 -12.994 1.00 11.72 ATCK: 299 CA THE 39 1.415 4.205 11.298 1.00 11.37 ATCK: 299 CA THE 39 1.415 4.205 11.298 1.00 11.56 ATCK: 301 ODE CB THR 39 0.320 43.390 -10.584 1.00 11.56 ATCK: 301 ODE CB THR 39 0.607 41.990 -10.584 1.00 11.66 ATCK: 301 ODE CB THR 39 -1.006 43.091 -11.293 1.00 11.56 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.56 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.56 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.72 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 303 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 304 CC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 305 N GC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 305 N GC THR 39 -1.006 43.091 -11.293 1.00 11.73 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2920 44.11.167 1.00 11.56 ATCK: 306 CC THR 39 2.2921 44.11.10 1.00 11.56 ATCK: 306 CC THR 39 2.2921 44.11.10 1.00 11.56 ATCK: 306 CC THR 39 2.2921 44.11.10 1.00 11.56 ATCK: 306 CC THR 39 2.2921 44.11.10 1.00 11.56 ATCK: 306 CC THR 39 2.2921 44.11.10 1.00 11.56 ATCK: 306 CC THR 30 CC THR	ATOM	292								
ATON: 294 OU. ASP 33 -1.315	MOTA									
ATOM 255 OC ABP 38 2.102 45.018 -13.455 1.00 13.713 ATOM 299 CA ABP 38 2.102 45.018 -13.455 1.00 14.27 ATOM 299 CA TIRR 39 1.460 44.073 -12.737 1.00 11.556 ATOM 299 CA TIRR 39 1.460 44.073 -12.737 1.00 11.567 ATOM 300 CB TIRR 39 0.687 41.290 -10.698 1.00 11.61 ATOM 301 OGI TIRR 39 0.687 41.990 -10.698 1.00 17.03 ATOM 302 CG2 TIRR 39 -1.008 43.691 -13.223 1.00 17.03 ATOM 303 C TIRR 39 0.687 41.990 -10.698 1.00 17.03 ATOM 303 C TIRR 39 2.721 40.776 -10.634 1.00 10.17 ATOM 304 O TIRR 39 2.721 40.776 -10.634 1.00 10.17 ATOM 305 N GLY 40 3.510 42.952 -11.367 1.00 34.700 ATOM 306 CA GLY 40 4.618 41.779 -10.634 1.00 11.23 ATOM 307 C GLY 40 4.618 41.179 -9.455 1.00 34.63 ATOM 308 O GLY 40 5.587 40.232 -10.124 1.00 3.510 ATOM 308 N PIHE 41 3.407 35.202 -10.124 1.00 14.63 ATOM 308 N PIHE 41 3.407 35.202 -10.124 1.00 14.63 ATOM 310 CA PIHE 41 3.407 35.203 -10.524 1.00 1.00 7.50 ATOM 312 CB PIHE 41 2.953 39.227 -7.078 1.00 7.50 ATOM 313 CB PIHE 41 2.935 39.227 -7.078 1.00 7.50 ATOM 315 CE PIHE 41 3.497 39.3110 -6.100 1.00 7.47 ATOM 316 CE PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 317 CZ PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 318 CP PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 319 N PIHE 41 1.9936 41.286 -6.859 1.00 7.47 ATOM 311 CG PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 312 CB PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 313 CD PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 313 CD PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 314 CB PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 315 CE PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 316 CE PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 317 CZ PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 318 C PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 319 C PIHE 41 3.493 39.110 -6.100 1.00 7.47 ATOM 310 C PIHE 42 2.533 31.494 -6.859 1.00 9.864 ATOM 311 C PIHE 42 2.533 31.494 -6.859 1.00 9.864 ATOM 312 CA PIHE 42 2.539 31.549 -1.2588 1.00 9.864 ATOM 313 C C PIHE 42 3.483 31.50 6.00 9.864 ATOM 314 C C PIHE 42 3.480 31.50 9.9860 1.00 9.97 ATOM 315 C C PIHE 42 3.483 39.30 9.9860 1.00 9.97 ATOM 316 C C PIHE 42										
ACROW 299 N THR 39 1.460 44.073 -12.7904 1.00 14.27 ATOM 299 CA THR 39 1.465 44.073 -12.737 1.00 11.56 ATOM 300 CB THR 39 0.320 43.390 -10.584 1.00 11.81 ATOM 301 OG1 THR 39 0.320 43.390 -10.584 1.00 17.03 ATOM 302 CG2 THR 39 -1.008 41.090 -10.698 1.00 17.03 ATOM 303 C THR 39 -1.008 41.601 11.221 1.00 17.03 ATOM 303 C THR 39 2.721 43.776 -10.639 1.00 17.03 ATOM 304 O THR 39 2.721 43.776 -10.639 1.00 10.67 ATOM 305 N GLY 40 3.510 42.222 -10.777 1.00 9.12. ATOM 306 CA GLY 40 4.760 42.222 -10.777 1.00 9.52 ATOM 307 C GLY 40 4.760 47.70 10.039 1.00 11.22 ATOM 308 N GLY 40 3.510 42.222 -10.777 1.00 9.52 ATOM 309 N GLY 40 3.520 44.113 -10.155 1.00 9.52 ATOM 309 N GLY 40 1.558 40.539 1.00 11.231 1.00 11.232 ATOM 309 N GLY 40 2.587 40.553 -9.505 1.00 14.89 ATOM 309 N GLY 41 2.552 39.927 -7.078 1.00 14.89 ATOM 310 C PHE 41 2.353 39.390 -5.352 1.00 7.48 ATOM 310 C PHE 41 2.353 39.390 -5.352 1.00 7.48 ATOM 311 CB PHE 41 2.353 39.390 -6.343 1.00 7.45 ATOM 312 CG PHE 41 2.353 39.390 -6.343 1.00 7.45 ATOM 314 CD2 PHE 41 3.497 33.110 -6.100 1.00 7.45 ATOM 315 CEI PHE 41 3.499 33.110 -6.100 1.00 7.45 ATOM 316 CE2 PHE 41 3.499 33.110 -6.100 1.00 7.45 ATOM 316 CE2 PHE 41 3.493 33.110 -6.100 1.00 7.45 ATOM 317 CZ PHE 41 3.493 33.110 -6.100 1.00 7.45 ATOM 318 C PHE 41 2.353 38.390 -1.0530 1.00 6.86 ATOM 316 CE2 PHE 41 4.040 33.635 -4.337 1.00 8.43 ATOM 316 C CE2 PHE 41 4.040 33.635 -4.337 1.00 8.43 ATOM 318 C PHE 41 2.353 38.390 -1.0530 1.00 6.86 ATOM 310 C PHE 41 3.493 33.110 -6.100 1.00 7.45 ATOM 312 CG PHE 41 3.359 33.100 -6.000 1.00 7.45 ATOM 313 CD THR 43 3.494 33.100 -7.078 1.00 6.86 ATOM 316 C CE2 PHE 41 4.030 33.635 -4.337 1.00 8.43 ATOM 317 CZ PHE 41 3.494 3.594 3.594 -10.2516 1.00 7.45 ATOM 318 C PHE 41 3.359 33.100 -6.000 1.00 7.45 ATOM 319 O PHE 42 5.359 33.995 -1.0550 1.00 6.86 ATOM 310 C PHE 42 5.359 33.400 -6.256 1.00 7.75 ATOM 320 C PHE 42 6.024 33.699 -1.0550 1.00 7.69 ATOM 331 CD THR 43 3.007 33.69 -1.2566 1.00 7.75 ATOM 332 C C PHE 42 6.024 31.399 33.100 -6.000 1.00 7.45 ATOM 333 C C PHE 42 6.024 31.300 -6.000 1										13.71
NOTE 1999 CA THER 39 1.460 44.073 -12.737 1.00 11.55									1.00	14.27
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ATOM 349 CA VAL 45 2.373 26.431 -11.766 1.00 7.42 ATOM 350 CB VAL 45 0.902 26.570 -12.161 1.00 9.68 ATOM 351 CG1 VAL 45 0.228 27.601 -11.255 1.00 10.94 ATOM 352 CG2 VAL 45 0.670 26.895 -13.632 1.00 10.29 ATOM 353 C VAL 45 3.120 25.384 -12.583 1.00 7.22 ATOM 354 O VAL 45 3.984 25.718 -13.393 1.00 7.51 ATOM 355 N ASN 46 2.862 24.095 -12.325 1.00 8.30 ATOM 356 CA ASN 46 3.565 22.985 -12.948 1.00 8.32 ATOM 357 CB ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56				VAL	45	3.075				
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ATOM 351 CG1 VAL 45 0.228 2.895 -13.632 1.00 10.29 ATOM 352 CG2 VAL 45 0.670 26.895 -13.632 1.00 7.22 ATOM 353 C VAL 45 3.120 25.384 -12.583 1.00 7.22 ATOM 354 O VAL 45 3.984 25.718 -13.393 1.00 7.51 ATOM 355 N ASN 46 2.862 24.095 -12.325 1.00 8.30 ATOM 356 CA ASN 46 3.565 22.985 -12.948 1.00 8.32 ATOM 357 CB ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56		350	CB							
ATOM 352 CG2 VAL 45 0.870 25.384 -12.583 1.00 7.22 ATOM 353 C VAL 45 3.120 25.384 -12.583 1.00 7.22 ATOM 354 O VAL 45 3.984 25.718 -13.393 1.00 7.51 ATOM 355 N ASN 46 2.862 24.095 -12.325 1.00 8.30 ATOM 356 CA ASN 46 3.565 22.985 -12.948 1.00 8.32 ATOM 357 CB ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 8.17										
ATOM 353 C VAL 45 3.984 25.718 -13.393 1.00 7.51 ATOM 354 O VAL 45 3.984 25.718 -13.393 1.00 8.30 ATOM 355 N ASN 46 2.862 24.095 -12.325 1.00 8.30 ATOM 356 CA ASN 46 3.565 22.985 -12.948 1.00 8.32 ATOM 357 CB ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56										
ATOM 354 O VAL 43 3,384 2.862 24.095 -12.325 1.00 8.30 ATOM 355 N ASN 46 2.862 24.095 -12.325 1.00 8.30 ATOM 356 CA ASN 46 3.565 22.985 -12.948 1.00 8.32 ATOM 357 CB ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 8.17										
ATOM 355 K ASN 46 3.565 22.985 -12.948 1.00 8.32 ATOM 356 CA ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 357 CB ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 8.17										
ATOM 356 CB ASN 46 3.323 22.885 -14.449 1.00 11.81 ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56										
ATOM 358 CG ASN 46 1.875 22.704 -14.786 1.00 18.20 ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 8.17										
ATOM 359 OD1 ASN 46 1.395 21.610 -14.470 1.00 31.96 ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.56 ATOM 360 ND2 ASN 46 5.043 23.111 -12.634 1.00 8.17							22.704			
ATOM 360 ND2 ASN 46 1.269 23.750 -15.306 1.00 24.36										
ACM AC E 042 23.111 -12.034 1.00 0.17				` ASN						
			С	RSA	46	5.043	23.111	-12.034	1.00	0.1/

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								1.00	10.28
ATOM	362	0	ASN	46	5.936	22.860	-13.449 -11.366	1.00	8.42
MOTA	363	N	HIS	47	5.323	23.425	-10.843	1.00	8.14
ATOM	364	CA	HIS	47	6.663	23.646 24.724	-9.775	1.00	8.35
MOTA	365	CB	HIS	47	6.618 5.590	24.430	-8.727	1.00	7.34
MOTA	366	CG	HIS	47 47	4.399	25.000	-8.504	1.00	7.88
MOTA	367	CD2	HIS	47	5.719	23.383	-7.812	1.00	7.39
ATOM	368	ND1	HIS HIS	47	4.626	23.360	-7.052	1.00	8.04
MOTA	369	CE1	HIS	47	3.827	24.344	-7.440	1.00	8.14
MOTA	370	NE2	HIS	47	7.375	22.430	-10.325	1.00	7.89
MOTA	371	с 0	HIS	47	8.580	22.464	-10.091	1.00	9.85
MOTA	372	и	GLY	48	6.691	21.328	-10.139	1.00	8.33 8.83
ATOM	373 374	CA	GLY	48	7.238	20.053	-9.749	1.00	8.46
ATOM	375	c	GLY	48	7.522	19.849	-8.282	1.00 1.00	11.24
MOTA	376	ō	GLY	48	8.060	18.780	-7.953	1.00	7.06
MOTA MOTA	377	N	ILE	49	7.267	20.817	-7.412	1.00	6.70
ATOM	378	CA	ILE	49	7.568	20.636	-6.015 -5.389	1.00	7.04
ATOM	379	CB	ILE	49	8.093	21.962	-3.886	1.00	7.67
ATOM	380	CG2	ILE	49	8.286	21.829	-6.077	1.00	8.13
ATOM	381	CGl	ILE	49	9.383	22.383	-5.584	1.00	9.61
MOTA	382	CD1	ILE	49	9.964	23.699	-5.245	1.00	6.55
MOTA	383	C	ILE	49	6.327	20.166 20.605	-5.497	1.00	7.34
MOTA	384	0	ILE	49	5.210	19.246	-4.311	1.00	6.14
ATOM	385	N	ASN	50	6.531	18.729	-3.464	1.00	5.89
ATOM	386	CA	ASN	50	5.449 5.834	17.332	-2.967	1.00	6.25
MOTA	387	CB	ASN	50	4.688	16.658	-2.270	1.00	5.80
MOTA	388	CG	ASN	50 50	3.717	17.297	-1.870	1.00	7.60
MOTA	389	OD1	ASN	50	4.840	15.366	-2.058	1.00	7.26
MOTA	390	ND2	ASN ASN	50	5.184	19.714	-2.331	1.00	5.68
MOTA	391	C	ASN	50	5.744	19.597	-1.230	1.00	6.62
MOTA	392	0	VAL	51	4.328	20.676	-2.619	1.00	5.97
MOTA	393	N CA	VAL	51	4.037	21.706	-1.632	1.00	6.10
ATOM	394	CB	VAL	51	3.508	23.010	-2.290	1.00	6.74 9.06
MOTA	395 396	CG1	VAL	51	4.557	23.676	-3.184	1.00	9.15
MOTA	396	CG2	VAL	51	2.250	22.743	-3.048	1.00 1.00	7.22
ATOM	398	c	VAL	51	3.137	21.232	-0.504	1.00	7.84
ATOM	399	ō	VAL	51	3.199	21.758	0.610	1.00	7.44
ATOM ATOM	400	N	GLN	52	2.286	20.231	-0.761	1.00	6.88
ATOM	401	CA	GLN	52	1.474	19.721	0.339 -0.163	1.00	8.70
MOTA	402	СВ	GLN	52	0.442	18.728	0.917	1.00	10.71
MOTA	403	ÇG	GLN	52	-0.534	18.205	1.807	1.00	12.39
ATCM	404	CD	GLN	52	-0.066	17.059	1.579	1.00	12.25
ATOM	405	OE1	GLN	52	0.970	16.387 16.925	2.956	1.00	13.45
ATOM	406	NE2	GLN	52	-0.672	19.094	1.378	1.00	6.81
MOTA	407	С	GLN	52	2.410 2.162	19.264	2.599	1.00	6.97
ATCM	408	0	GLN	52 53	3.434	18.364	0.950	1.00	6.70
MOTA	409	N	ARG	53	4.339	17.734	1.912	1.00	6.00
MOTA	410	CA	ARG	53	5.152	16.655	1.210	1.00	6.55
MOTA	411	CB	arg arg	53	6.068	15.894	2.129	1.00	6.59
MOTA	412	CG	ARG	53	6.645	14.676	1.432	1.00	8.72
MOTA	413	CD	ARG	53	7.445	13.846	2.348	1.00	10.05
MOTA.	414	NE CZ	ARG	53	8.771	13.910	2.425	1.00	12.80
ATOM	415	NH1		53	9.464	14.723	1.605	1.00	10.00
ATOM	416 417	NH2		53	9.424	13.106	3.279	1.00	5.84
ATOM	417	C	ARG	53	5.156	18.809	2.598	1.00 1.00	6.89
MOTA	419	ō	ARG	53	5.396	18.698	3.820	1.00	5.98
MOTA	420	N	LEU	54	5.598	19.850	1.903	1.00	5.87
MOTA	421	CA	LEU	54	6.274	20.982	2.544	1.00	6.27
MOTA MOTA	422	CB	LEU	54	6.558	22.056	1.489	1.00	7.00
ATOM	423	CG	LEU	54	6.940	23.435	2.017	1.00	7.98
ATOM	424	CD	L LEU	54	8.286	23.396	2.689 0.866	1.00	8.66
ATOM	425	CD:		54	6.864	24.441	3.660	1.00	5.97
MOTA	426	С	LEU	54			4.788	1.00	6.89
ATOM	427	0	LEU	54			3.344	1.00	6.27
ATOM	428	N	SER	55				1.00	6.86
ATOM	429	CA		55				1.00	7.85
ATOM	430	CB	_	55			4.615	1.00	11.52
MOTA	431			55				1.00	6.98
MOTA	432		SER	55				1.00	7.09
ATOM	433		SER	59 56				1.00	7.22
MOTA	434	N	GLN	30	, 2.,00				

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> most	435	CA	GLN	56	2.784	19.139	6.379	1.00	7.20
ATOM ATOM	436	CB	GLN	56	2.400	17.785	5.799	1.00	9.23
ATOM	437	CG	GLN	56	2.329	16.657	6.795	1.00 1.00	11.52 14.79
ATOM	438	CD	GITN.	56	1.214	16.804	7.803 8.912	1.00	22.67
ATOM	439	OE1	GL11	56	1.405	16.302 17.443	7.423	1.00	13.58
MOTA	440	NE2	GLN	56	0.122 4.007	19.101	7.279	1.00	7.77
MOTA	441	С	GLN	56 56	3.869	19.099	8.517	1.00	7.98
MOTA	442	0	GLN LYS	50 57	5.188	18.978	6.684	1.00	6.97
MCTA	443	N CA	LYS	57	6.404	18.904	7.465	1.00	7.11
MOTA	444 445	CB	LYS	57	7.622	18.583	6.598	1.00	7.89
MOTA MOTA	446	CG	LYS	57	7.574	17.249	5.861	1.00	7.92
ATOM	447	CD	LYS	57	7.561	16.023	6.784	1.00 1.00	9.42 10.57
ATOM	448	CE	LYS	57	7.650	14.765	5.962 6.770	1.00	13.31
ATOM	449	NZ	LYS	57	7.444	13.524	8.273	1.00	6.73
ATOM	450	С	LYS	57	6.623	20.175 20.149	9.413	1.00	8.29
ATOM	451	0	LYS	57	7.102 6.325	21.322	7.676	1.00	7.11
MOTA	452	N	THR	58 58	6.448	22.618	8.342	1.00	7.21
MOTA	453	CA CB	THR THR	58	6.257	23.767	7.355	1.00	7.45
ATOM	454 455	OG1	THR	58	7.318	23.725	6.392	1.00	8.22
MOTA MOTA	456	CG2	THR	58	6.316	25.134	8.054	1.00	8.05
ATOM	457	С	THR	58	5.495	22.727	9.527	1.00	6.99 7.76
ATOM	458	0	THR	58	5.879	23.194	10.618	1.00 1.00	7.98
ATOM	459	N	LYS	59	4.257	22.255	9.336 10.430	1.00	8.41
MCTA	460	CA	LYS	59	3.270	22.244 21.732	9.870	1.00	11.31
ATOM	461	CB	LYS	59	1.933 0.857	21.678	10.962	1.00	17.36
MOTA	462	CG	LYS LYS	59 5 9	-0.412	21.032	10.378	1.00	21.57
MOTA	463	CE	LYS	59	-0.145	19.572	10.080	1.00	26.63
MOTA	464 465	NZ	LYS	59	0.949	19.018	10.953	1.00	41.28
MCTA MOTA	466	c	LYS	59	3.756	21.375	11.583	1.00	8.97
ATOM	467	0	LYS	59	3.662	21.789	12.743	1.00	9.25 8.73
ATOM	468	N	GLU	60	4.260	20.182	11.254 12.288	1.00 1.00	9.20
ATOM	469	CA	GLU	60	4.763	19.297	11.679	1.00	10.60
MOTA	470	CB	GLU	60	5.286	17.988 17.114	11.083	1.00	13.69
ATOM	471	CG	GLU	60 60	4.189 4.634	15.954	10.241	1.00	15.34
ATOM	472	CD	GLU GLU	60	5.846	15.700	10.211	1.00	20.83
MOTA	473 474	OE1 OE2	GLU	60	3.819	15.290	9.550	1.00	19.41
MOTA MOTA	475	C	GLU	60	5.849	19.961	13.119	1.00	10.04
ATOM	476	ŏ	GLU	60	5.822	19.898	14.353	1.00	11.42 8.91
ATOM	477	N	PHE	61	6.751	20.687	12.465	1.00 1.00	7.35
MOTA	478	CA	PHE	61	7.785	21.443	13.184 12.129	1.00	7.73
ATOM	479	CB	PHE	61	8.775	21.958 22.977	12.665	1.00	8.40
ATOM	480	CG	PHE	61	9.763 10.749	22.594	13.521	1.00	9.42
MOTA	481	CD1	PHE	61 61	9.667	24.316	12.302	1.00	10.73
ATOM	482	CD2 CE1	PHE PHE	61	11.653	23.520	13.994	1.00	10.45
MOTA	483 484	CE2	PHE	61	10.591	25.256	12.727	1.00	11.37
MOTA MOTA	485	CZ	PHE	61	11.562	24.834	13.606	1.00	10.57
MOTA	486	C	PHE	61	7.211	22.579	14.015	1.00 1.00	7.60 8.53
ATOM	487	0	PHE	61	7.474	22.658	15.228 13.426	1.00	8.25
ATOM	488	N	HIS	62	5.446	23.487	14.156	1.00	8.66
ATOM	489	CA	HIS	62	5.921	24.635 25.531	13.261	1.00	9.03
MOTA	490	CB	HIS	62	5.076 5.800	26.423	12.311	1.00	8.36
ATOM	491	CG	HIS	62 62	5.271	26.774	11.094	1.00	7.90
MOTA	492	CD2 ND1		62	6.963	27.124	12.415	1.00	10.22
MOTA	493 494	CE1	_	62	7.123	27.845	11.303	1.00	7.76
ATOM ATOM	495	NE2		62	6.122	27.622	10.488	1.00	10.59 9.71
ATOM	496	C	HIS	62	5.091	24.264	15.385	1.00	11.19
ATOM	497	ō	HIS	62	5.070	24.974	16.376	1.00	10.41
ATOM	498	N	MET	63	4.335	23.167	15.283	1.00 1.00	12.27
ATOM	499	CA	MET	63	3.393	22.836	16.321 15.705	1.00	13.32
ATOM	500	CB	MET	63	2.151	22.162	14.692	1.00	14.13
ATOM	501	CG	MET	63	1.453	23.061 24.757	15.253	1.00	21.44
MOTA	502	SD	MET	63	1.062 0.528	25.519	13.715	1.00	41.15
MOTA	503	CE	MET	63 63		22.008	17.416	1.00	13.21
MOTA	504	c	MET MET	63		21.818	18.470	1.00	19.62
MOTA	505	O N	SER	64		21.457	17.178	1.00	10.61
ATOM	506 507	r CA		64	_	20.662	18.191	1.00	13.44
ATOM	307	٠.							

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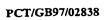
NOTA	508	СВ	SER	64	6.289	19.283	17.662	1.00	15.70
ATOM	509	OG	SER	64	7.299	19.356	16.689	1.00	17.37
	510	c	SER	64	7.105	21.342	18.809	1.00	12.71
MOTA		0	SER	64	7.528	20.933	19.888	1.00	16.31
ATOM	511	N	ILE	65	7.664	22.392	18.236	1.00	10.13
ATOM	512		ILE	65	8.799	23.010	18.900	1.00	9.79
MOTA	513	CA		65	9.469	23.968	17.906	1.00	10.92
MOTA	514	CB	ILE	65	8.583	25.072	17.406	1.00	13.10
MOTA	515	CG2	ILE			24.455	18.502	1.00	11.85
MOTA	516	CG1	ILE	65	10.787		17.598	1.00	13.44
MOTA	517	CD1	ILE	65	11.740	25.156	20.162	1.00	10.18
MOTA	518	С	ILE	65	8.366	23.703	20.162	1.00	12.62
ATOM	519	0	ILE	65	7.286	24.267	21.194	1.00	10.22
MOTA	520	N	THR	66	9.170	23.608		1.00	10.22
ATOM	521	CA	THR	66	8.866	24.106	22.535		
ATOM	522	CB	THR	66	9.278	23.065	23.583	1.00	9.97
MOTA	523	OG1	THR	66	10.681	22.892	23.511	1.00	12.07
MOTA	524	CG2	THR	66	8.571	21.749	23.373	1.00	14.54
ATOM	525	C	THR	66	9.559	25.420	22.846	1.00	8.74
ATOM	526	0	THR	66	10.531	25.775	22.160	1.00	8.66
MOTA	527	N	PRO	67	9.078	26.142	23.864	1.00	9.12
ATOM	528	CD	PRO	67	7.813	25.938	24.594	1.00	11.31
ATOM	529	CA	PRO	€7	9.724	27.392	24.251	1.00	9.65
MOTA	530	CB	PRO	67	8.925	27.860	25.450	1.00	12.19
MOTA	531	CG	PRO	67	7.598	27.233	25.312	1.00	12.99
MOTA	532	C	PRO	67	11.209	27.228	24.567	1.00	9.34
	533	ō	PRO	67	12.046	28.064	24.200	1.00	10.59
MOTA	534	и	GLU	68	11.597	26.115	25.186	1.00	10.47
MOTA	535	CA	GLU	68	13.000	25.861	25.470	1.00	11.54
MOTA		CB	GLU	68	13.061	24.533	26.244	1.00	13.13
MOTA	536	CG	GLU	68	14.452	24.123	26.600	1.00	14.22
MOTA	537		GLU	68	14.498	22.689	27.107	1.00	15.39
MOTA	538	CD		68	13.945	21.743	26.508	1.00	21.01
MOTA	539	OE1	GLU	68	15.043	22.449	28.180	1.00	19.65
ATOM -	540	OE2	GLU		13.835	25.799	24.217	1.00	9.32
ATOM	541	С	GLU	68		26.376	24.096	1.00	11.18
MOTA	542	0	GLU	68	14.920		23.221	1.00	8.89
MOTA	543	N	GLU	69	13.319	25.065	21.929	1.00	9.17
MOTA	544	CA	GLU	69	14.015	24.920	21.010	1.00	9.44
ATOM	545	CB	GLU	69	13.310	23.921	21.576	1.00	10.83
MOTA	546	CG	GLU	69	13.338	22.513		1.00	12.92
ATOM	547	CD	GLU	69	12.432	21.627	20.745		19.22
MOTA	548	OE1	GLU	69	12.996	20.941	19.876	1.00	
ATOM	549	OE2	GLU	69	11.213	21.599	21.003	1.00	19.62
ATOM	550	C	GLƯ	69	14.157	26.247	21.213	1.00	8.87
ATOM	551	0	GLU	69	15.153	26.521	20.573	1.00	9.17
ATOM	552	N	LYS	70	13.126	27.086	21.311	1.00	8.65
MOTA	553	CA	LYS	70	13.148	28.387	20.621	1.00	8.41
MOTA	554	CВ	LYS	70	11.786	29.100	20.695	1.00	8.73
MOTA	555	CG	LYS	70	10.663	28.358	19.977	1.00	8.40
ATOM	556	CD	LYS	70	9.319	29.001	20.239	1.00	9.16
ATOM	5 57	CE	LYS	70	8.198	28.102	19.726	1.00	10.86
ATOM	558	NZ	LYS	70	6.875	28.741	19.900	1.00	12.00
ATOM	559	C	LYS	70	14.268	29.257	21.182	1.00	7.77
ATOM	560	ō	LYS	70	14.992	29.885	20.400	1.00	8.10
MOTA	561	N	TRP	71	14.418	29.325	22.514	1.00	7.55
	562	CA	TRP	71	15.556	30.080	23.057	1.00	7.86
ATOM		CB	TRP	71	15.545	30.104	24.582	1.00	8.53
MOTA	563	CG	TRP	71	14.467	30.932	25.195	1.00	7.80
MOTA	564		TRP	71	14.216	32.335	25.045	1.00	7.5 5
MOTA	565	CD2		71	13.097	32.672	25.824	1.00	8.56
MOTA	566	CE2	TRP		14.813	33.362	24.326	1.00	8.26
ATOM	567	CE3	TRP	71		30.477	26.068	1.00	8.54
MOTA	568	CD1	TRP	71	13.512		26.446	1.00	9.24
MOTA	569	NEI	TRP	71	12.682	31.521	25.900	1.00	9.23
MOTA	570	CZ2	TRP	71	12.589	33.965			8.95
MOTA	571	CZ3	TRP	71	14.311	34.644	24.384	1.00	
MOTA	572	CH2	TRP	71	13.198	34.947	25.181	1.00	9.37
ATOM	573	С	TRP	71	16.892	29.513	22.565	1.00	7.41
ATOM	574	0	TRP	71	17.808	30.271	22.223	1.00	7.75
ATOM	575	N	ASP	72	16.954	28.180	22.552	1.00	7.95
ATOM	576	CA	ASP	72	18.195	27.508	22.215	1.00	9.24
ATOM	577	CB	ASP	72	18.123	26.031	22.638	1.00	11.24
ATOM	578	CG	ASP	72	18.208	25.822	24.146	1.00	14.08
ATOM	579	OD1	ASP	72	18.351	26.778	24.967	1.00	15.23
ATOM	580	OD2	ASP	72	17.942	24.678	24.599	1.00	17.93
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ATOM	581	С	ASP	72	18.589	27.715	20.764	1.00	9.14
ATOM	582	0	ASP	72	19.766	27.648	20.413	1.00	10.16
ATOM	583	N	LEU	73	17.615	27.980	19.872	1.00	7.52
ATOM	584	CA	LEU	73	17.828	28.233	18.474	1.00	8.24
ATOM	585	CB	LEU	73	16.767	27.452	17.648	1.00	9.44
ATOM	586	CG	LEU	73	16.895	25.941	17.683	1.00	10.93
MOTA	587	CD1	LEU	73	15.676	25.238	17.093	1.00	16.41
MOTA	588	CD2	LEU	73	18.199	25.437	17.077	1.00	14.97
ATOM	589	C	LEU	73	17.804	29.708	18.102	1.00	7.12
ATOM	590	0	LEU ALA	73 74	17.930	30.074 30.607	16.935 19.036	1.00 1.00	7.82
ATOM ATOM	591 592	N CA	ALA	74	17.541 17.201	31.967	18.766	1.00	6.72 6.46
ATOM	593	CB	ALA	74	16.742	32.662	20.042	1.00	7.96
ATOM	594	c	ALA	74	18.258	32.818	18.098	1.00	7.50
ATOM	595	ō	ALA	74	19.423	32.697	18.490	1.00	8.38
ATOM	596	N	ILE	75	17.864	33.689	17.172	1.00	6.76
ATOM	597	CA	ILE	75	18.795	34.680	16.652	1.00	6.71
ATOM	598	CB	ILE	75	18.224	35.376	15.420	1.00	6.88
ATOM	599	CG2	ILE	75	18.044	34.424	14.239	1.00	8.21
MOTA	600	CG1	ILE	75	16.936	36.140	15.755	1.00	7.17
MOTA	601	CD1	ILE	75	16.522	37.151	14.715	1.00	9.71
MOTA	602	С	ILE	75	19.201	35.704	17.734	1.00	7.09
ATOM	603	0	ILE	75	13.546	35.810	18.781	1.00	6.89
ATOM	604	n CA	ALA ALA	76 76	20.280 20.876	36.421 37.407	17.461 18.360	1.00 1.00	8.25 9.65
ATOM ATOM	605 606	CB	ALA	76	22.084	38.067	17.666	1.00	16.12
ATOM	607	C	ALA	76	19.886	38.445	18.838	1.00	8.48
ATOM	608	ō	ALA	76	19.952	38.940	19.953	1.00	9.39
ATOM	609	N	ALA	77	13.905	38.810	18.002	1.00	8.30
MOTA	610	CA	ALA	77	17.911	39.800	18.374	1.00	9.45
ATOM	611	CB	ALA	77	15.992	40.064	17.179	1.00	10.84
ATOM	612	С	ALA	77	17.100	39.352	19.582	1.00	8.44
ATOM	613	0	ALA	77	16.541	40.191	20.299	1.00	10.71
ATOM	614	N	TYR	78	16.967	38.049	19.816	1.00	7.56
ATOM	615	CA	TYR	78 78	16.222 15.223	37.513 36.420	20.938 20.451	1.00	8.24 7.69
ATOM ATOM	616 617	CB CB	TYR TYR	78 78	14.158	37.043	19.575	1.00	7.53
ATOM	618	CD1	TYR	78	14.272	36.972	18.193	1.00	7.61
ATOM	619	CEL	TYR	78	13.370	37.508	17.335	1.00	7.49
ATOM	620	CD2	TYR	78	13.050	37.728	20.079	2.00	8.66
ATOM	621	CE2	TYR	78	12.150	38.290	19.216	1.00	9.02
ATOM	622	CZ	TYR	78	12.291	38.173	17.845	1.00	8.23
ATCM	623	OH	TYR	78	11.357	38.805	17.028	1.00	10.37
ATOM	624	C	TYR	78	17.115	36.920	22.016	1.00	7.16
ATOM	625	0	TYR	78	16.681	36.716	23.134	1.00	10.37
ATOM	626	N	asn Asn	79 79	18.346 19.232	36.542 35.854	21.694 22.624	1.00 1.00	8.52 7.53
MOTA MOTA	627 628	CA CB	ASN	79	19.232	34.338	22.379	1.00	7.59
ATOM	629	CG	ASN	79	20.000	33.518	23.343	1.00	7.82
ATOM	630	OD1	ASN	79	20.942	34.010	23.962	1.00	8.62
ATOM	631	ND2	ASN	79	19.686	32.222	23.477	1.00	9.18
ATOM	632	С	ASN	79	20.653	36.401	22.394	1.00	8.94
MOTA	633	О	ASN	79	21.341	36.042	21.442	1.00	10.00
MOTA	634	N	LYS	80	21.086	37.226	23.348	1.00	9.67
MOTA	635	CA	LYS	80	22.403	37.853	23.279	1.00	11.21
ATOM	636	CB	LYS	80	22.575	38.808	24.473	1.00	14.70
ATOM	637	cc	LYS	80	21.697	40.035	24.385 25.532	1.00	20.93
ATOM	638	CD	LYS LYS	80 80	21.970 21.540	41.007 42.420	25.219	1.00 1.00	25.64 29.22
ATOM ATOM	639 640	CE NZ	LYS	80	20.209	42.711	25.795	1.00	39.86
ATOM	641	C	LYS	80	23.565	36.877	23.274	1.00	10.80
ATOM	642	ō	LYS	80	24.702	37.192	22.944	1.00	13.45
ATOM	643	N	GLU	81	23.349	35.630	23.706	1.00	10.06
ATOM	644	CA	GLU	81	24.436	34.666	23.722	1.00	11.25
ATOM	645	CB	GLU	81	24.060	33.385	24.505	1.00	11.80
ATOM	646	CG	GLU	81	23.668	33.565	25.948	1.00	15.18
MOTA	647	CD	GLU	81	23.394	32.322	26.768	1.00	16.40
ATOM	648	OE1	GLU	81	22.810	32.379	27.889	1.00	16.96
ATOM	649	OE2	GLU GLU	81 81	23.688 24.791	31.185 34.265	26.315 22.281	1.00 1.00	21.03
ATOM	650 651	0	GLU	81	24.791	34.265	22.281	1.00	12.20 14.12
ATOM ATOM	652	и .	HIS	82	23.900	34.439	21.316	1.00	10.21
ATOM	653	CA	HIS	82	24.112	33.865	19.980	1.00	9.63
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ATOM	654	СВ	HIS	82	22.803	33.231	19.530	1.00	9.27
ATOM	655	CG	HIS	82	22.371	32.070	20.360	1.00	9.26
ATOM	656	CD2	HIS	82	23.068	31.323	21.257	1.00	10.67
ATOM	657	ND1	HIS	82	21.113	31.516	20.288	1.00	8.55 8.43
MOTA	658	CE1	HIS	82	21.063	30.500 30.366	21.141 21.742	1.00	10.55
ATOM	659	NE2	HIS	82	22.223	30.366	19.029	1.00	10.33
ATOM	660	С	HIS	82 . 82	24.567 23.901	35.266	18.055	1.00	11.36
ATOM	661	о И	HIS GLN	83	25.726	35.507	19.295	1.00	12.56
MOTA	662 663	CA	GLN	83	26.203	36.634	18.507	1.00	13.52
ATOM ATOM	664	CB	GLN	83	27.470	37.164	19.181	1.00	16.22
ATOM	665	CG	GLN	83	27.163	37.925	20.478	1.00	19.23
ATOM	666	CD	GLN	83	26.294	39.148	20.300	1.00	20.38
ATOM	667	OE1	GLN	83	26.558	40.074	19.536	1.00	29.81
MOTA	668	NE2	GLN	83	25.191	39.208	21.046	1.00	22.46
MOTA	669	С	GLN	83	26.450	36.332	17.050	1.00 1.00	13.44 15.10
MOTA	670	0	GLN	83	26.392	37.262	16.246 16.694	1.00	13.17
ATOM	671	N	ASP	84 84	26.636 26.862	35.089 34.722	15.292	1.00	14.01
ATOM	672 673	CA CB	ASP ASP	84	27.692	33.451	15.162	1.00	17.37
MOTA MOTA	674	CG	ASP	84	29.128	33.607	15.603	1.00	20.70
ATOM	675	OD1	ASP	84	29.618	34.762	15.567	1.00	24.40
ATOM	676	OD2	ASP	84	29.754	32.593	15.997	1.00	26.32
ATOM	677	С	ASP	84	25.612	34.566	14.450	1.00	13.94
ATON	678	0	ASP	84	25.668	34.506	13.229	1.00	13.72
MOTA	679	N	GLN	85	24.472	34.468	15.125	1.00	12.76
ATOM	680	CA	GLN	85	23.186	34.270	14.473	1.00 1.00	11.48 11.21
ATOM	681	CB	GLN	85	22.324	33.390 31.971	15.381 15.552	1.00	11.91
ATOM	682	CG	GLN GLN	85 85	22.791 21.795	31.109	16.278	1.00	10.83
ATOM	683 684	CD OE1	GLN	85	20.636	30.970	15.841	1.00	12.23
ATOM ATOM	685	NE2	GLN	85	22.225	30.557	17.380	1.00	9.17
ATOM	686	C	GLN	85	22.468	35.584	14.216	1.00	12.01
ATOM	687	o	GLN	85	21.590	36.041	14.977	1.00	14.96
ATOM	688	N	VAL	86	22.773	36.203	13.091	1.00	10.72
MOTA	689	CA	VAL	86	22.062	37.392	12.684	1.00	11.56
MOTA	690	CB	VAL	86	23.031	38.325	11.951	1.00	12.29 16.28
MOTA	691	CG1	VAL	86	22.341	39.541	11.368	1.00	17.21
MOTA	692	CG2	VAL	86	24.227	38.725 36.994	12.807 11.853	1.00	11.74
MOTA	693	C	VAL VAL	86 86	20.862 19.737	37.435	12.126	1.00	17.43
ATOM	694	N O	ARG	87	21.060	36.084	10.898	1.00	8.59
MOTA MOTA	695 696	CA	ARG	87	20.044	35.624	9.972	1.00	7.72
ATOM	697	СВ	ARG	87	20.635	35.441	8.553	1.00	8.11
ATOM	698	CG	ARG	87	21.203	36.706	7.959	1.00	8.47
ATOM	699	CD	ARG	87	21.842	36.462	6.599	1.00	7.75
ATOM	700	NE	ARG	87	20.829	36.173	5.609	1.00	7.39
MOTA	701	CZ	ARG	87	21.042	35.691	4.396	1.00	6.65
MOTA	702	NHl	ARG	87	22.260	35.389	3.959	1.00 1.00	8.68 7.51
MOTA	703	NH2	ARG	87	20.036	35.471	3.547 10.332	1.00	7.27
MOTA	704	C	ARG	87 87	19.410 18.170	34.289 34.129	10.237	1.00	8.33
ATOM	705 706	o N	ARG ALA	88	20.206	33.270	10.609	1.00	7.40
ATOM ATOM	707	CA	ALA	88	19.749	31.876	10.750	1.00	6.92
MOTA	708	CB	ALA	88	20.760	30.869	10.254	1.00	8.59
MOTA	709	C	ALA	88	19.373	31.526	12.165	1.00	7.06
ATOM	710	0	ALA	88	20.138	31.793	13.084	1.00	9.57
ATOM	711	N	GLY	89	18.191	30.953	12.332	1.00	6.44
MOTA	712	CA	GLY	89	17.673	30.494	13.592	1.00	6.74 6.23
MOTA	713	С	GLY	89	16.222	30.872	13.801	1.00 1.00	6.32
MOTA	714	0	GLY	89	15.451	31.150	12.853 15.062	1.00	6.31
ATOM	715	N	TYR	90 90	15.811 14.439	30.854 31.063	15.460	1.00	6.71
ATOM	716	CA CB	TYR TYR	90	14.439	30.142	16.623	1.00	7.29
MOTA	717 718	CG	TYR	90	12.552	29.793	16.487	1.00	6.81
MOTA MOTA	718	CD1	TYR	90	12.151	28.687	15.755	1.00	7.89
MOTA	720	CEI	TYR	90	10.830	28.357	15.592	1.00	8.96
ATOM	721	CD2	TYR	90	11.536	30.556	17.042	1.00	7.06
MOTA	722	CE2	TYR	90	10.193	30.257	16.837	1.00	8.48
ATOM	723	CZ	TYR	90	9.854	29.145	16.124	1.00	9.10
MOTA	724	ОН	TYR	90	8.555	28.790	15.864	1.00	13.43
MOTA	725	C	TYR	90	14.191	32.541	15.802	1.00	6.30
MOTA	726	0	TYR	90	14.986	33.184	16.491	1.00	6.78

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ATOM	727	N	TYR	91	13.035	33.030	15.320	1.00	6.07
ATOM	728	CA	TYR	91	12.554	34.384	15.484	1.00	6.47
ATOM	729	CB	TYR	91	12.252	35.025	14.135	1.00	6.78
ATOM	730	CG	TYR	91	13.392	35.277	13.209	1.00	6.23 7.06
ATOM	731	CD1	TYR	91	14.353	34.332	12.859	1.00 1.00	7.06
MOTA	732	CE1	TYR	91	15.364	34.597 36.521	11.962 12.556	1.00	7.46
ATOM	733	CD2	TYR	91	13.490 14.486	36.776	11.634	1.00	7.96
MOTA	734	CE2	TYR TYR	91 91	15.428	35.826	11.343	1.00	6.61
MOTA	735 736	CZ OH	TYR	91	16.438	36.143	10.440	1.00	8.55
MOTA MOTA	737	C	TYR	91	11.289	34.262	16.334	1.00	5.71
MOTA	738	ō	TYR	91	10.273	33.788	15.843	1.00	6.82
ATOM	739	N	LEU	92	11.385	34.619	17.619	1.00	6.69
ATOM	740	CA	LEU	92	10.306	34.337	18.569	1.00	6.33
MOTA	741	CB	LEU	92	10.873	34.371	19.987	1.00	7.20
MOTA	742	CG	LEU	92	11.700	33.186	20.466	1.00	7.89
MOTA	743	CD1	LEU	92	13.022	33.065	19.735	1.00 1.00	8.67 10.35
MOTA	744	CD2	LEU	92	11.888	33.261 35.317	21.985 18.471	1.00	6.37
MOTA	745	C	LEU	92	9.151 9.284	36.491	18.161	1.00	7.36
ATOM	746	0	LEU SER	92 93	7.976	34.786	18.810	1.00	7.12
MOTA	747 748	N CA	SER	.93	6.805	35.605	19.060	1.00	7.59
ATOM	748	C3	SER	93	5.523	34.794	19.013	1.00	8.96
MOTA MOTA	750	OG	SER	93	5.410	33.894	20.074	1.00	11.17
ATOM	751	C	SER	93	6.928	36.224	20.443	1.00	7.83
ATCM	752	0	SER	93	7.728	35.807	21.266	1.00	8.58
ATOM	753	N	ILE	94	6.100	37.213	20.688	1.00	9.38
ATOM	754	CA	ILE	94	6.029	37.865	22.016	1.00	9.91
ATOM	755	CB	ILE	94	6.640	39.280	21.992	1.00	10.58
ATCM	756	CG2	ILE	94	6.575	39.842	23.385	1.00	11.13
ATOM	757	CG1	ILE	94	8.051	39.304	21.385	1.00	11.02 12.81
ATOM	758	CD1	ILE	94	8.740	40.630	21.225 22.376	1.00 1.00	9.85
MOTA	759	С	ILE	94	4.550	37.947	21.906	1.00	11.19
MOTA	760	0	ILE	94	3.881	38.887 36.948	23.046	1.00	10.93
MOTA	761	N	PRO	95 95	4.006 4.693	35.749	23.520	1.00	12.42
ATOM	762	CD	PRO PRO	95	2.560	36.878	23.342	1.00	12.23
ATOM	763 764	CA CB	PRO	95	2.394	35.670	24.234	1.00	13.83
ATOM ATOM	765	CG	PRO	95	3.555	34.807	23.867	1.00	13.55
ATOM.	766	c	PRO	95	2.064	38.173	23.973	1.00	11.65
ATOM	767	ō	PRO	95	2.791	38.800	24.780	1.00	12.20
ATOM	768	N	GLY	96	0.973	38.667	23.409	1.00	12.67
ATOM	769	CA	GLY	96	0.479	39.965	23.799	1.00	13.37
MOTA	770	С	GLY	96	0.933	41.142	22.976	1.00	12.23
ATOM	771	0	GLY	96	0.366	42.233	23.105	1.00	15.48
MOTA	772	N	LYS	97	1.992	40.975	22.189	1.00	12.23 11.30
MOTA	773	CA	LYS	97	2.637	42.048	21.444 22.187	1.00 1.00	12.24
ATOM	774	CB	LYS	97	3.947	42.410 42.828	23.625	1.00	13.52
MOTA	775	CG	LYS	97	3.784	44.147	23.758	1.00	15.77
MOTA	776	CD	LYS	97 97	3.087 3.019	44.549	25.736	1.00	18.45
MOTA	777	CE	LYS LYS	97	2.107	45.715	25.339	1.00	21.87
MOTA	778 779	NZ C	LYS	97	2.977	41.783	19.977	1.00	10.88
ATOM	780	0	LYS	97	2.857	42.638	19.081	1.00	11.92
MOTA MOTA	781	N	LYS	98	3.453	40.583	19.691	1.00	10.38
ATOM	782	CA	LYS	98	3.913	40.149	18.374	1.00	9.59
ATOM	783	CB	LYS	98	5.442	40.215	18.332	1.00	12.06
ATOM	784	CG	LYS	98	6.093	39.618	17.105	1.00	11.30
ATOM	785	CD	LYS	98	7.604	39.879	17.116	1.00	10.99
ATOM	786	CE	LYS	98	8.338	39.370	15.908	1.00	10.76
MOTA	787	NZ	LYS	98	8.448	37.856	15.937	1.00	10.00 9.52
ATOM	788	С	LYS	98	3.462	38.723	18.145 18.884	1.00 1.00	10.44
MOTA	789	0	LYS	98	3.835	37.797	17.108	1.00	8.69
MOTA	790	N	ALA	99	2.674 2.095	38.529 37.221	16.865	1.00	8.30
ATOM	791	CA	ALA	99 99	0.771	37.440	16.107	1.00	11.01
ATOM	792	CB	ALA ALA	99	2.993	36.289	16.048	1.00	7.09
MOTA	793	c o	ALA	99	3.091	35.086	16.291	1.00	8.34
ATOM	794	N	VAL	100	3.614	36.851	14.990	1.00	7.33
ATOM	795 796	CA	VAL	100	4.390	36.044	14.085	1.00	7.31
ATOM ATOM	795	CB	VAL	100	4.804	36.909	12.882	1.00	8.26
ATOM	798	CG1	VAL	100	5.854	37.965	13.230	1.00	9.84
ATOM	799	CG2	VAL	100	5.294	36.092	11.703	1.00	9.08

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ATOM 860 C ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 4.96 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 865 CG PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 5.84						- 90	•			
ATOM 801 0 VAL 100 6.274 16.069 15.614 1.00 5.24 1.00	3 TOM	800	_	VAI.	100	5.636	35.463	14.759		
ATOM 803 CA GLU 101 6.039 34.294 14.261 1.00 5.93 ATOM 803 CA GLU 101 7.275 31.647 14.631 1.00 6.20 ATOM 804 CB GLU 101 7.275 31.647 14.631 1.00 6.20 ATOM 805 CG GLU 101 7.275 31.595 15.846 1.00 9.01 ATOM 806 CD GLU 101 7.748 13.759 17.7058 1.00 11.35 ATOM 807 DEL GLU 101 6.399 31.171 17.727 1.00 11.35 ATOM 808 DEL GLU 101 6.399 31.171 17.727 1.00 11.35 ATOM 808 DEL GLU 101 6.399 31.171 17.727 1.00 11.35 ATOM 808 DEL GLU 101 6.399 31.171 17.727 1.00 6.12 ATOM 808 DEL GLU 101 7.748 12.835 13.441 1.00 6.12 ATOM 808 DEL GLU 101 7.748 12.835 13.441 1.00 6.12 ATOM 808 DEL GLU 101 7.748 12.835 13.441 1.00 6.12 ATOM 811 N SER 102 9.047 12.564 13.384 1.00 6.02 ATOM 812 CA SER 102 9.605 31.897 12.156 1.00 6.02 ATOM 813 CB SER 102 9.605 31.897 12.156 1.00 6.02 ATOM 814 DEL GENERAL SER 102 9.605 31.897 12.156 1.00 6.02 ATOM 815 C SER 102 10.632 31.393 11.038 1.00 6.74 ATOM 816 DEL GLU 101 1.157 11.157 11.158 1.00 6.02 ATOM 817 N PHE 103 11.137 93.433 11.251 11.00 6.61 ATOM 818 CA SER 102 10.394 31.2531 12.486 1.00 6.61 ATOM 818 CA SER 102 10.394 31.2531 12.486 1.00 6.61 ATOM 818 CA SER 102 10.394 31.2531 12.486 1.00 6.61 ATOM 818 CA SER 102 10.394 31.2531 12.486 1.00 6.61 ATOM 818 CA SER 102 10.394 31.2531 12.486 1.00 6.61 ATOM 818 CA SER 102 10.394 31.2531 12.486 1.00 6.61 ATOM 826 CB PHE 103 11.137 92.1432 11.5517 1.00 5.88 ATOM 827 DEL SER 103 15.167 28.887 10.156 1.00 6.72 ATOM 828 CP PHE 103 14.723 27.499 11.506 1.00 6.21 ATOM 829 CB PHE 103 15.167 28.887 10.483 1.00 6.21 ATOM 826 C PHE 103 15.167 28.887 10.483 1.00 6.21 ATOM 827 C PHE 103 15.167 28.887 10.483 1.00 6.21 ATOM 828 C PHE 103 15.167 28.887 10.483 1.00 6.21 ATOM 829 C CE PHE 103 15.167 28.887 10.483 1.00 6.30 ATOM 829 C CE PHE 103 15.167 28.887 10.483 1.00 6.30 ATOM 820 C CW S 104 17.728 12.54 30.888 8.907 1.00 5.89 ATOM 823 C C PHE 103 15.169 1.00 5.50 ATOM 830 C CW S 104 17.202 29.801 9.794 1.00 5.34 ATOM 830 C CW S 104 17.728 12.294 1.00 5.34 ATOM 830 C CW S 104 17.728 12.294 1.00 5.34 ATOM 830 C CW S 104 17.728 12.294 1.00 5.34 ATOM 830 C CW S 104 17.										
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ATOM 853 O LEU 106 20.754 27.046 4.237 1.00 3.96 ATOM 854 N ASN 107 21.991 28.473 2.983 1.00 4.96 ATOM 855 CA ASN 107 22.654 27.437 2.187 1.00 5.23 ATOM 856 CB ASN 107 23.803 28.147 1.434 1.00 5.83 ATOM 857 CG ASN 107 24.424 27.280 0.353 1.00 5.32 ATOM 858 OD1 ASN 107 24.424 27.280 0.353 1.00 5.32 ATOM 859 ND2 ASN 107 24.989 27.988 -0.626 1.00 6.49 ATOM 860 C ASN 107 24.098 27.988 -0.626 1.00 6.49 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.43 ATOM 865 CB PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 866 CG PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 867 C PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 867 C PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 26.823 24.180 2.080 1.00 5.53 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.100				LEU	106					
ATOM 854 N ASN 107 21.991 28.473 2.983 1.00 5.23 ATOM 855 CA ASN 107 22.654 27.437 2.187 1.00 5.23 ATOM 856 CB ASN 107 23.803 28.147 1.434 1.00 5.81 ATOM 857 CG ASN 107 24.424 27.280 0.353 1.00 5.32 ATOM 858 OD1 ASN 107 24.420 26.044 0.396 1.00 5.91 ATOM 859 ND2 ASN 107 24.989 27.988 -0.626 1.00 6.49 ATOM 860 C ASN 107 23.225 26.347 3.079 1.00 6.49 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 867 C PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 26.823 24.180 2.080 1.00 5.84 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 5.53 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10			0	LEU						
ATOM 855 CA ASN 107 23.803 28.147 1.434 1.00 5.83 ATOM 856 CB ASN 107 24.424 27.280 0.353 1.00 5.32 ATOM 858 OD1 ASN 107 24.424 27.280 0.353 1.00 5.32 ATOM 858 OD1 ASN 107 24.420 26.044 0.396 1.00 5.91 ATOM 859 ND2 ASN 107 24.989 27.988 -0.626 1.00 6.49 ATOM 860 C ASN 107 23.225 26.347 3.079 1.00 4.82 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 866 CG PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 867 C PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 26.823 24.180 2.080 1.00 5.84 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 5.53 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10		854	N							
ATOM 856 CB ASN 107 24.424 27.280 0.353 1.00 5.32 ATOM 858 OD1 ASN 107 24.420 26.044 0.396 1.00 5.91 ATOM 858 OD1 ASN 107 24.989 27.988 -0.626 1.00 6.49 ATOM 859 ND2 ASN 107 23.225 26.347 3.079 1.00 4.82 ATOM 860 C ASN 107 23.225 26.347 3.079 1.00 4.82 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 5.51	ATOM									
ATOM 857 CG ASN 107 24 420 26.044 0.396 1.00 5.91 ATOM 858 OD1 ASN 107 24 420 26.044 0.396 1.00 6.49 ATOM 859 ND2 ASN 107 24.989 27.988 -0.626 1.00 6.49 ATOM 860 C ASN 107 23.225 26.347 3.079 1.00 4.82 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 21.595 24.677 2.118 1.00 5.82 ATOM 865 CB PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 5.51	MOTA									
ATOM 859 ND2 ASN 107 24.989 27.988 -0.626 1.00 6.49 ATOM 860 C ASN 107 23.225 26.347 3.079 1.00 4.82 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 23.345 23.973 3.639 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 5.51										5.91
ATOM 860 C ASN 107 23.225 26.347 3.079 1.00 4.82 ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 5.51								-0.626	1.00	6.49
ATOM 861 O ASN 107 24.097 26.593 3.937 1.00 5.62 ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 865 CB PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10								3.079	1.00	4.82
ATOM 862 N PRO 108 22.771 25.095 2.881 1.00 4.96 ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.51							26.593			
ATOM 863 CD PRO 108 21.595 24.677 2.118 1.00 5.43 ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10						22.771	25.095			
ATOM 864 CA PRO 108 23.345 23.973 3.639 1.00 5.82 ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10					108	21.595	24.677			
ATOM 865 CB PRO 108 22.516 22.773 3.134 1.00 6.84 ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10					108					
ATOM 866 CG PRO 108 21.194 23.377 2.749 1.00 6.32 ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 5.93 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 25.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10				PRO						
ATOM 867 C PRO 108 24.846 23.763 3.444 1.00 6.51 ATOM 868 O PRO 108 25.533 23.129 4.274 1.00 6.51 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.53 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10			CG							
ATOM 868 O PRO 108 25.533 23.129 4.277 2.353 1.00 5.53 ATOM 869 N ASN 109 25.397 24.277 2.353 1.00 5.84 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 5.84 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10 6.10 6.10 6.10 6.10 6.10 6.10		867								6.51
ATOM 869 N ASN 109 25.337 24.180 2.080 1.00 5.84 ATOM 870 CA ASN 109 26.823 24.180 2.080 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 6.10										5.53
ATOM 870 CA ASN 109 25.123 24.1369 0.598 1.00 6.10 ATOM 871 CB ASN 109 27.130 24.369 0.598 1.00 5.51										5.84
ATOM 871 CB ASN 109 25 633 23.186 -0.200 1.00 5.51										6.10
ATOM 8/2 CG										5.51
	ATOM	8/2	CG							

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ATCM	873	OD1	ASN	109	26.690	22.020	0.209	1.00	7.43
ATOM	874	ND2	ASN	109	26.165	23.491	-1.405	1.00	7.14
ATOM	875	С	ASN	109	27.652	25.150	2.920	1.00	5.95 6.60
MOTA	876	၁	ASN	109	28.863	25.063	2.911 3.672	1.00 1.00	6.52
MOTA	877	N	PHE	110 110	27.032 27.727	26.060 26.943	4.602	1.00	6.64
MOTA	878	CA	PHE PHE	110	26.984	28.235	4.934	1.00	6.86
ATOM	679 880	CB CG	PHE	110	26.793	29.203	3.781	1.00	6.62
MOTA MOTA	881	CD1	PHE	110	27.454	29.100	2.593	1.00	6.42
ATOM	882	CD2	PHE	110	25.889	30.238	3.919	1.00	7.13
ATOM	883	CE1	PHE	110	27.269	30.020	1.570	1.00	7.97
ATOM	884	CE2	PHE	110	25.698	31.178	2.917	1.00	7.73 7.68
ATOM	885	CZ	PHE	110	26.380	31.064	1.723 5.870	1.00 1.00	6.41
MOTA	886	С	PHE	110	28.010	26.131 26.222	6.890	1.00	9.08
MOTA	887	0	PHE	110 111	27.334 29.047	25.319	5.795	1.00	7.20
MOTA	888 889	N CA	THR THR	111	29.543	24.473	6.858	1.00	7.97
MOTA MOTA	890	CB	THR	111	29.986	23.114	6.240	1.00	9.61
ATOM	891	OG1	THR	111	30.863	23.407	5.150	1.00	12.08
ATOM	892	CG2	THR	111	28.831	22.332	5.660	1.00	11.21
ATOM	893	С	THR	111	30.719	25.173	7.535	1.00	8.55
MOTA	894	Ū	THR	111	31.262	26.161	7.039	1.00	8.43 10.82
MOTA	895	N	PRO	112	31.158	24.669	8.690 9.514	1.00 1.00	12.34
MOTA	896	CD	PRO	112	30.500 32.284	23.646 25.317	9.365	1.00	10.76
MOTA	897	CA	PRO PRO	112 112	32.254	24.403	10.591	1.00	12.53
ATOM	898 899	CB CG	PRO	112	31.035	23.971	10.884	1.00	13.67
ATOM ATOM	900	C	PRO	112	33.560	25.453	8.553	1.00	10.13
ATOM	901	ō	PRO	112	34.293	26.449	8.719	1.00	12.02
ATOM	902	N	ASP	113	33.764	24.577	7.586	1.00	10.28
ATOM	903	CA	ASP	113	34.960	24.594	6.754	1.00	11.85 14.15
MOTA	904	CB	ASP	113	35.418	23.179	6.354 5.556	1.00	16.88
MOTA	905	CG	ASP	113	34.450 34.697	22.335 21.122	5.265	1.00	17.94
MOTA	906	CD1	ASP ASP	113 113	33.431	22.903	5.120	1.00	18.33
MOTA	907 908	OD2 C	ASP	113	34.779	25.485	5.516	1.00	10.04
MOTA MOTA	909	0	ASP	113	35.695	25.568	4.674	1.00	11.29
ATOM	910	N	HIS	114	33.614	26.058	5.256	1.00	8.19
MOTA	911	CA	HIS	114	33.368	26.853	4.066	1.00	7.72
MOTA	912	CB	HIS	114	31.924	27.234	3.945	1.00 1.00	8.19 7.35
MOTA	913	CG	HIS	114	31.514	27.896	2.661 1.634	1.00	7.63
ATOM	914	CD2	HIS	114 114	30.786 31.853	27.365 29.194	2.350	1.00	7.74
MOTA	915	ND1 CE1	HIS HIS	114	31.374	29.423	1.125	1.00	8.63
MOTA MOTA	916 917	NE2	HIS	114	30.698	28.385	0.701	1.00	8.22
ATOM	918	C	HIS	114	34.263	28.078	4.069	1.00	7.89
ATOM	919	0	HIS	114	34.363	28.705	5.126	1.00	8.23
MOTA	920	N	PRO	115	34.877	28.447	2.947	1.00	8.07
MOTA	921	CD	PRO	115	34.805	27.853	1.595	1.00 1.00	9.44 7.97
MOTA	922	CA	PRO	115	35.791	29.586 29.638	2.989 1.603	1.00	10.29
ATOM	923	CB	PRO PRO	115 115	36.432 36.058	28.363	0.935	1.00	16.51
ATOM	924 925	CG C	PRO	115	35.213	30.906	3.451	1.00	8.16
ATOM ATOM	925	0	PRO	115	35.957	31.749	4.033	1.00	8.89
ATOM	927	N	ARG	116	33.935	31.156	3.245	1.00	7.57
ATOM	928	CA	ARG	116	33.282	32.366	3.687	1.00	8.05
MOTA	929	CB	ARG	116	32.055	32.649	2.831	1.00	9.75
ATOM	930	CG	ARG	116	32.363	33.041	1.398	1.00 1.00	11.43 17.12
MOTA	931	CD	ARG	116	33.024	34.444	1.316 -0.046	1.00	18.64
MOTA	932	NE	ARG	116	32.909 33.267	34.976 36.202	-0.332	1.00	16.55
ATOM	933	CZ	ARG ARG	116 116	33.732	37.005	0.626	1.00	18.90
MOTA	934	NH1 NH2	ARG	116	33.158	36.628	-1.550	1.00	19.38
ATOM ATOM	935 936	C	ARG	116	32.955	32.353	5.168	1.00	8.18
ATOM	937	o	ARG	116	32.905	33.426	5.807	1.00	10.55
ATOM	938	N	ILE	117	32.701	31.161	5.702	1.00	7.91
ATOM	939	CA	ILE	117	32.507	30.993	7.134	1.00	8.74
ATOM	940	СВ	ILE	117	31.884	29.617	7.425	1.00 1.00	8.27 10.79
MOTA	941	CG2	ILE	117	31.909	29.337	8.920 6.798	1.00	7.78
ATOM	942	CG1	ILE ILE	117 117	30.482 29.478	29.510 30.458	7.376	1.00	9.72
ATOM	943	CD1	ILE	117	33.863	31.170	7.818	1.00	9.52
ATOM	944 945	0	ILE	117	33.956	31.893	8.820	1.00	10.02
ATOM	743	~		1					

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ATOM	945	N	GLN	118	34.936	30.601	7.248	1.00	9.60
ATOM	947	CA	GLN	118	36.264	30.823	7.814	1.00	9.55
ATOM	948	CB	GLN	118	37.287	29.975	7.066	1.00	11.20
ATOM	949	CG	GLN	118	37.163	28.475	7.285	1.00	11.87
ATOM	950	CD	GLN	118	37.706	28.064	8.628	1.00 1.00	15.84 16.95
ATOM	951	OE1	GLN	118	38.799 36.968	28.509	9.021 9.314	1.00	18.58
ATOM	952	NE2	GLN GLN	118 118	36.624	27.189 32.301	7.782	1.00	10.34
MOTA	953 954	с 0	GLN	118	37.209	32.780	8.779	1.00	12.18
ATOM ATOM	955	И	ALA	119	36.307	33.008	6.719	1.00	10.58
ATOM	956	CA	ALA	119	36.652	34.437	6.577	1.00	11.17
ATOM	957	СВ	ALA	119	36.675	34.884	5.141	1.00	11.90
MOTA	958	С	ALA	119	35.766	35.340	7.417	1.00	11.81
ATOM	959	0	ALA	119	35.975	36.547	7.593	1.00	13.51
ATOM	960	N	LYS	120	34.677	34.792	7.926	1.00	11.51
ATOM	961	CA	LYS	120	33.697	35.524	8.728 9.981	1.00 1.00	11.83 16.43
MOTA	962	CB	LYS	120 120	34.314 35.156	36.156 35.192	10.773	1.00	20.21
MOTA	963 964	CG CD	LYS LYS	120	34.452	34.007	11.336	1.00	25.82
ATOM ATOM	965	CE	LYS	120	35.422	33.080	12.083	1.00	26.48
ATOM	966	NZ	LYS	120	36.364	32.304	11.194	1.00	23.67
ATOM	967	C	LYS	120	33.033	36.623	7.910	1.00	12.07
ATOM	968	0	LYS	120	32.701	37.698	8.413	1.00	13.32
ATOM	969	N	THR	121	32.773	36.290	6.647	1.00	11.59
ATOM	970	CA	THR	121	32.162	37.294	5.783	1.00	11.41
MOTA	971	CB	THR	121	32.158	36.758	4.336	1.00 1.00	11.74 14.18
MOTA	972	OG1	THR	121	33.515	36.460 37.825	3.947 3.394	1.00	13.26
MOTA	973	CG2 C	THR THR	121 121	31.617 30.742	37.525	6.199	1.00	10.30
ATOM	974 975	0	THR	121	30.016	36.627	6.442	1.00	9.38
MOTA MOTA	976	И	PRO	122	30.343	38.869	6.255	1.00	11.24
ATOM	977	CD	PRO	122	31.175	40.087	6.162	1.00	13.40
MOTA	978	CA	PRO	122	28.938	39.176	6.605	1.00	10.67
ATCM	979	CB	PRO	122	28.883	40.676	6.374	1.00	13.30
ATOM	980	CG	PRO	122	30.251	41.155	6.684	1.00	14.04 8.90
ATOM	981	C	PRO	122	27.933	38.454	5.721 4.567	1.00	9.02
ATOM	982	0	PRO	122 123	28.224 26.810	38.174 38.105	6.329	1.00	9.47
ATOM	983	n CA	THR THR	123	25.660	37.447	5.729	1.00	8.42
MOTA MOTA	984 985	CB	THR	123	25.112	38.105	4.455	1.00	9.93
ATOM ATOM	986	OG1	THR	123	25.929	37.810	3.314	1.00	10.18
MOTA	987	CG2	THR	123	25.024	39.629	4.512	1.00	13.04
ATOM	988	С	THR	123	25.807	35.938	5.560	1.00	8.70
MOTA	989	0	THR	123	24.815	35.273	5.198	1.00	9.15
MOTA	990	N	HIS	124	26.994	35.395	5.833	1.00	8.34 7.64
ATOM	991	CA	HIS	124	27.189	33.957	5.798 5.149	1.00 1.00	7.45
MOTA	992	CB	HIS	124 124	28.524 28.726	33.584 34.113	3.780	1.00	7.00
ATOM	993 994	CD2	HIS HIS	124	28.755	33.507	2.577	1.00	7.26
MOTA MOTA	994	ND1	HIS	124	28.998	35.449	3.557	1.00	7.88
ATOM	996	CE1	HIS	124	29.202	35.607	2.261	1.00	8.29
ATOM	997	NE2	HIS	124	29.032	34.478	1.631	1.00	7.93
ATOM	998	С	HIS	124	27.170	33.387	7.206	1.00	8.19
MOTA	999	О	HIS	124	27.888	33.913	8.056	1.00	9.17
MOTA	1000	N	GLU	125	26.413	32.313	7.455	1.00	7.36
MOTA	1001	CA	GLU	125	26.337	31.694 32.230	B.776 9.604	1.00 1.00	7.74 8.77
MOTA	1002	CB	GLU	125 125	25.166 25.164	33.714	9.832	1.00	9.78
ATOM	1003	CD CD	GLU GLU	125	23.885	34.235	10.445	1.00	9.41
ATOM	1004 1005	OE1	GLU	125	23.057	33.439	10.972	1.00	12.02
ATOM ATOM	1005	OE2	GLU	125	23.791	35.476	10.373	1.00	12.25
MOTA	1007	C	GLU	125	26.118	30.196	8.567	1.00	7.57
ATOM	1008	o	GLU	125	25.581	29.787	7.521	1.00	8.65
MOTA	1009	N	VAL	126	26.505	29.398	9.557	1.00	7.88
ATOM	1010	CA	VAL	126	26.219	27.969	9.636	1.00	7.38
MOTA	1011	CB	VAL	126	27.281	27.246	10.488	1.00	8.22 9.54
MOTA	1012	CG1	VAL	126	26.979	25.754	10.561 9.941	1.00 1.00	9.34
MOTA	1013	CG2	VAL	126 126	28.686 24.843	27.497 27.785	10.272	1.00	7.39
ATOM	1014	С 0	VAL VAL	126	24.843	28.311	11.344	1.00	8.29
ATOM	1015 1016	N	ASN	127	23.951	27.081	9.554	1.00	6.96
MOTA MOTA	1017	CA	ASN	127	22.618	26.839	10.081	1.00	6.87
ATOM	1018	СВ	ASN	127	21.832	25.948	9.120	1.00	6.56

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ATOM	1019	CG	ASN	127	21.515	26.650	7.803	1.00	6.11
ATOM	1020	OD1	ASN	127	21.362	27.877	7.793	1.00	7.19
ATOM	1021	ND2	ASN	127	21.360	25.859	6.758	1.00	7.23
ATOM	1022	С	ASN	127	22.624	26.173	11.447	1.00	7.20
MOTA	1023	0	ASN	127	23.503	25.353	11.763	1.00	8.68
ATOM	1024	N	VAL	128	21.596	26.511	12.239	1.00	7.13
MOTA	1025	CA	VAL	128	21.284	25.849	13.501	1.00	7.06
MOTA	1026	CB	VAL	128	21.172	26.848	14.657	1.00	8.77
MOTA	1027	CG1	VAL	128	22.508	27.567	14.825	1.00	10.68
MOTA	1028	CG2	VAL	128	19.986	27.774	14.501	1.00	9.46
MOTA	1029	C	VAL	128	20.032	25.032	13.329	1.00	6.59
ATOM	1030	0	VAL	128	19.101	25.426 23.861	12.617 13.963	1.00 1.00	8.06 7.79
ATOM ATOM	1031 1032	N CA	TRP TRP	129 129	19.977 18.884	22.914	13.812	1.00	7.98
ATOM	1032	СВ	TRP	129	19.316	21.709	12.955	1.00	7.99
ATOM	1034	CG	TRP	129	19.671	22.145	11.553	1.00	7.47
ATOM	1035	CD2	TRP	129	18.743	22.448	10.496	1.00	6.77
ATOM	1036	CE2	TRP	129	19.486	22.838	9.368	1.00	6.74
ATON	1037	CE3	TRP	129	17.353	22.428	10.400	1.00	6.42
ATOM	1038	CD1	TRP	129	20.887	22.349	11.033	1.00	8.81
MOTA	1039	NEl	TRP	129	20.809	22.765	9.721	1.00	8.43
ATOM	1040	CZ2	TRP	129	18.902	23.196	8.160	1.00	6.63
ATOM	1041	CZ3	TRP	129	16.754	22.796	9.207	1.00	7.42
MOTA	1042	CH2	TRP	129	17.553	23.187	8.120	1.00	6.84
ATOM	1043	С	TRP	129	18.434	22.394	15.137	1.00	8.10
ATOM	1044	0	TRP	129	19.266	22.268	16.103	1.00	9.20
MOTA	1045	N	PRO	130	17.156	22.038	15.321 14.338	1.00	9.10
ATOM	1046	CD	PRO PRO	130 130	16.07E 16.684	22.208 21.410	16.563	1.00 1.00	11.04 10.04
ATOM	1047 1048	CA CB	PRO	130	15.190	21.366	16.377	1.00	12.74
ATOM ATOM	1048	CG	PRO	130	14.987	21.348	14.930	1.00	12.90
ATOM	1050	c	PRO	130	17.295	20.019	15.674	1.00	10.76
ATOM	1051	ō	PRO	130	17.902	19.473	15.742	1.00	10.41
MOTA	1052	N	ASP	131	17.139	19.412	17.840	1.00	12.19
MOTA	1053	CA	ASP	131	17.611	18.063	18.062	1.00	13.83
MOTA	1054	CB	ASP	131	17.311	17.695	19.499	1.00	20.75
MOTA	1055	CG	ASP	131	18.290	18.307	20.474	1.00	30.05
NOTA	1056	OD1	ASP	131	19.218	19.075	20.122	1.00	41.54
MOTA	1057	OD2	ASP	131	18.111	17.974	21.678	1.00	44.79
MOTA	1058	С	ASP	131	16.864	17.077	17.175	1.00	12.28
ATOM	1059	0	ASP	131	15.643	17.091	17.104	1.00	11.37
ATOM	1060	И	GLU	132	17.632	16.204	16.561 15.660	1.00 1.00	11.37 12.37
ATOM	1061	CA CB	GLU GLU	132 132	17.032 18.140	15.236 14.416	14.986	1.00	14.40
ATOM ATOM	1062 1063	CG	GLU	132	17.667	13.221	14.169	1.00	14.02
ATOM	1064	CD	GLU	132	17.004	13.617	12.890	1.00	14.20
ATOM	1065	OEl	GLU	132	17.327	14.733	12.391	1.00	13.96
ATOM	1066	OE2	GLU	132	16.222	12.787	12.395	1.00	14.71
ATOM	1067	С	GLU	132	16.028	14.309	16.327	1.00	13.05
ATOM	1068	0	GLU	132	15.022	13.953	15.730	1.00	13.21
MOTA	1069	N	THR	133	16.283	13.922	17.576	1.00	15.02
ATOM	1070	CA	THR	133	15.337	13.065	18.267	1.00	17.13
MOTA	1071	CB	THR	133	15.911	12.663	19.645	1.00	19.10
ATOM	1072	OG1	THR	133	16.214	13.817	20.436	1.00	30.56
ATOM	1073	CG2	THR	133	17.200	11.914	19.407	1.00	21.80
ATOM	1074	C	THR	133	14.003	13.738	18.504	1.00	14.81
MOTA	1075	0	THR	133 134	12.976	13.052 15.065	18.539 18.681	1.00 1.00	18.31 14.08
ATOM	1076 1077	N CA	LYS LYS	134	13.992 12.738	15.763	18.943	1.00	14.05
ATOM ATOM	1077	CB	LYS	134	13.028	17.072	19.683	1.00	16.10
ATOM	1079	CG	LYS	134	13.566	16.783	21.105	1.00	21.50
ATOM	1080	CD	LYS	134	13.739	18.052	21.912	1.00	24.72
ATOM	1081	CE	LYS	134	13.962	17.851	23.411	1.00	29.07
MOTA	1082	NZ	LYS	134	15.380	17.498	23.673	1.00	35.66
MOTA	1083	C	LYS	134	11.982	16.084	17.673	1.00	11.72
ATOM	1084	0	LYS	134	10.764	16.268	17.697	1.00	12.75
MOTA	1085	N	HIS	135	12.768	16.210	16.602	1.00	10.34
MOTA	1086	CA	HIS	135	12.229	16.559	15.278	1.00	9.70
MOTA	1087	СВ	HIS	135	12.568	18.014	14.927	1.00	10.46
MOTA	1088	CG	HIS	135	11.859	18.971	15.855	1.00	11.60
ATOM	1089	CD2	HIS	135	10.625	19.519	15.664 17.077	1.00	11.74
ATOM	1090	ND1	HIS	135	12.334	19.405	17.592	1.00	13.42
ATOM	1091	CE1	HIS	135	11.390	20.219	21.092	1.00	10.37

ATOM	1092	NE2	HIS	135	10.358	20.251	16.753	1.00	14.68
ATOM	1093	С	HIS	135	12.753	15.614	14.207	1.00	9.49
ATOM	1094	О	HIS	135	13.491	15.005	13.302	1.00	8.95
ATOM	1095	N	PRO	136	12.410	14.336	14.298	1.00	10.29
ATOM	1096	CD	PRO	136	11.539	13.714	15.288	1.00	12.71
ATOM	1097	CA	PRO	136	12.996	13.349	13.367	1.00	10.63
ATOM	1098	CB	PRO	136	12.331	12.025	13.738	1.00	13.20
MOTA	1099	CG	PRO	136	11.373	12.308	14.821	1.00	15.42
ATOM	1100	С	PRO	136	12.727	13.656	11.902	1.00	9.37
ATOM	1101	0	PRO	136	11.583	13.947	11.540	1.00	10.11
ATOM	1102	N	GLY	137	13.801	13.643	11.131	1.00	9.15 8.92
ATOM	1103	CA	GLY	137	13.642	13.906	9.700		8.41
ATOM	1104	С	GLY	137	13.568	15.351	9.281	1.00 1.00	8.62
ATOM	1105	0	GLY	137	13.604	15.660	8.076	1.00	7.77
ATOM	1106	N	PHE	138	13.438	16.290	10.230	1.00	7.53
MOTA	1107	CA	PHE	138	13,189	17.683	9.858 11.069	1.00	9.20
MOTA	1108	CB	PHE	138	12.791	18.533	10.773	1.00	8.61
ATOM	1109	CG	PHE	138	12.676	20.014	9.999	1.00	8.98
MOTA	1110	CD1	PHE	138	11.623	20.502	11.264	1.00	8.98
MOTA	1111	CD2	PHE	138	13.628	20.897	9.728	1.00	9.14
MOTA	1112	CE1	PHE	138	11.598	21.878	11.007	1.00	9.39
MOTA	1113	ČE2	PHE	136	13.584	22.238 22.730	10.231	1.00	8.60
MOTA	1114	CZ	PHE	138	12.555	18.318	9.123	1.00	6.57
MOTA	1115	С	PHE	138	14.355	18.953	8.090	1.00	6.31
MOTA	1116	0	PHE	138	14.155	18.234	9.700	1.00	7.35
ATOM	1117	n	GLN	139	15.553 16.718	18.827	9.045	1.00	7.49
MOTA	1118	CA	GLN	139 139	17.990	18.600	9.867	1.00	7.76
ATOM	1119	CB	GLN	139	19.211	19.123	9.164	1.00	8.03
ATOM	1120	CG	GLN GLN	139	20.475	19.034	10.008	1.00	9.61
MOTA	1121	CD	GLN	139	20.452	18.629	11.194	1.00	11.81
ATOM	1122	OE1	GLN	139	21.556	19.403	9.361	1.00	10.42
MCTA	1123	NE2	GLN	139	16.898	18.263	7.634	1.00	6.36
MOTA	1124	c	GLN	139	17.149	19.042	6.703	1.00	6.70
ATOM	1125	o N	ASP	140	16.792	16.962	7.476	1.00	7.41
ATOM	1126	CA	ASP	140	16.966	16.359	6.153	1.00	8.02
MOTA	1127	CB	ASP	140	17.014	14.845	6.267	1.00	10.06
ATOM	1128 1129	CG	ASP	140	18.185	14.414	7.143	1.00	12.56
ATOM	1129	OD1	ASP	140	19.263	15.008	7.017	1.00	15.40
MOTA	1131	OD2	ASP	140	18.010	13.419	7.863	1.00	17.99
ATOM	1132	C	ASP	140	15.903	16.836	5.173	1.00	7.03
MOTA MOTA	1133	ŏ	ASP	140	16.195	17.125	4.012	1.00	7.37
ATOM	1134	N	PHE	141	14.649	16.886	5.632	1.00	6.76
MOTA	1135	CA	PHE	141	13.592	17.404	4.806	1.00	6.92
ATOM	1136	CB	PHE	141	12.241	17.315	5.525	1.00	8.28
ATOM	1137	CG	PHE	141	11.180	18.059	4.700	1.00	10.59
ATOM	1138	CD1	PHE	141	10.649	17.398	3.585	1.00	12.85
ATOM	1139	CD2	PHE	141	10.766	19.326	4.979	1.00	12.09
ATOM	1140	CE1	PHE	141	9.773	18.045	2.730	1.00	14.79
ATOM	1141	CE2	PHE	141	9.946	20.027	4.097	1.00	12.80
ATOM	1142	CZ	PHE	141	9.514	19.385	2.960	1.00	15.56
ATOM	1143	С	PHE	141	13.898	18.843	4.381	1.00	6.10
ATOM	1144	0	PHE	141	13.715	19.227	3.224	1.00	5.52
ATOM	1145	N	ALA	142	14.235	19.692	5.355	1.00	5.91
MOTA	1146	CA	ALA	142	14.436	21.113	5.109	1.00	6.07
ATOM	1147	CB	ALA	142	14.597	21.835	6.444	1.00	6.15
ATOM	1148	C	ALA	142	15.593	21.396	4.153	1.00	5.38
ATOM	1149	0	ALA	142	15.534	22.273	3.289	1.00	5.69
ATOM	1150	N	GLU	143	16.660	20.630	4.306	1.00	5.79
MOTA	1151	CA	GLU	143	17.811	20.759	3.404	1.00	5.89 6.66
ATOM	1152	CB	GLU	143	19.021	19.977	3.912	1.00	
MOTA	1153	CG	GLU	143	19.647	20.589	5.171	1.00	6.49 8.57
MOTA	1154	CD	GLU	143	20.818	19.857	5.742	1.00	
ATOM	1155	OE1	GLU	143	20.986	18.661	5.468	1.00	15.50 8.03
ATOM	1156	OE2	GLU	143	21.529	20.401	6.607	1.00	6.15
ATOM	1157	С	GLU	143	17.426	20.335	1.982	1.00 1.00	6.13
MOTA	1158	0	GLU	143	17.798	21.030	1.046	1.00	6.24
MOTA	1159	N	GLN	144	16.717	19.195	1.852	1.00	5.81
ATOM	1160	CA	GLN	144	16.249	18.793	0.519	1.00	7.33
MOTA	1161	СВ	GLN	144	15.582	17.418	0.622 -0.718	1.00	9.38
MOTA	1162	CG	GLN	144	15.034	16.900	-0.718 -1.755	1.00	11.31
MOTA	1163	CD	GLN	144		16.723	-2.852	1.00	15.13
MOTA	1164	OE1	GLN	144	16.165	17.336	-2.032	2.00	23.23

3.5034	1165	NE2	GLN	144	17.017	15.794	-1.443	1.00	13.37
ATOM	1166	C	GLN	144	15.322	19.843	-0.068	1.00	6.08
MOTA		o	GLN	144	15.367	20.113	-1.286	1.00	6.65
MOTA	1167	и	TYR	145	14.450	20.464	0.723	1.00	5.44
ATOM	1168			145	13.552	21.492	0.249	1.00	5.36
MOTA	1169	CA	TYR		12.562	21.956	1.318	1.00	5.45
MOTA	1170	CB	TYR	145			0.785	1.00	5.34
MOTA	1171	CG	TYR	145	11.718	23.094		1.00	5.77
MOTA	1172	CD1	TYR	145	10.850	22.844	-0.266		
MOTA	1173	CE1	TYR	145	10.113	23.856	-0.832	1.00	5.40
MOTA	1174	CD2	TYR	145	11.863	24.392	1.209	1.00	6.05
MOTA	1175	CE2	TYR	145	11.128	25.428	0.632	1.00	5.52
MOTA	1176	CZ	TYR	145	10.260	25.146	-0.376	1.00	4.90
MOTA	1177	OH	TYR	145	9.505	26.126	-1.002	1.00	6.57
ATOM	1178	С	TYR	145	14.350	22.668	-0.324	1.00	4.85
ATOM	1179	ō	TYR	145	14.009	23.173	-1.384	1.00	5.67
ATOM	1180	N	TYR	146	15.400	23.055	0.370	1.00	5.22
	1181	CA	TYR	146	16.294	24.134	-0.108	1.00	5.07
ATOM		CB	TYR	146	17.492	24.302	0.818	1.00	6.31
ATOM	1182		TYR	146	18.356	25.533	0.554	1.00	5.63
ATOM	1183	CG			18.217	26.654	1.367	1.00	4.93
MOTA	1184	CDl	TYR	146		27.804	1.191	1.00	4.66
MOTA	1185	CEl	TYR	146	18.975			1.00	5.91
ATOM	1186	CD2	TYR	146	19.292	25.595	-0.471		
MOTA	1187	CE2	TYR	146	20.050	26.728	-0.673	1.00	5.60
MOTA	1188	CZ	TYR	146	19.892	27.816	0.151	1.00	5.33
MOTA	1189	OH	TYR	146	20.681	28.929	-0.076	1.00	6.01
MOTA	1190	С	TYR	146	16.740	23.831	-1.547	1.00	4.88
MCTA	1191	0	TYR	146	16.630	24.691	-2.413	1.00	5.89
MOTA	1192	N	TRP	147	17.186	22.580	-1.792	1.00	5.20
ATOM	1193	CA	TRP	147	17.650	22.244	-3.129	1.00	5.95
ATOM	1194	CB	TRP	147	18.544	20.995	-3.105	1.00	6.61
		CG	TRP	147	19.730	21.259	-2.221	1.00	6.71
MCTA	1195	CD2	TRP	147	20.675	22.345	-2.390	1.00	6.87
MCTA	1196		TRP	147	21.598	22.227	-1.334	1.00	7.71
MOTA	1197	CE2				23.398	-3.303	1.00	7.63
ATOM	1198	CE3	TRP	147	20.828		-1.120	1.00	7.42
MOTA	1199	CD1	TRP	147	20.127	20.576		1.00	7.49
MOTA	1200	NE1	TRP	147	21.230	21.118	-0.574		8.32
ATOM	1201	CZ2	TRP	147	22.641	23.133	-1.198	1.00	
MOTA	1202	CZ3	TRP	147	21.873	24.299	-3.147	1.00	8.76
MOTA	1203	CH2	TRP	147	22.774	24.162	2.079	1.00	8.40
ATOM	1204	C	TRP	147	16.514	22.124	-4.123	1.00	5.56
MOTA	1205	0	TRP	147	16.697	22.484	-5.295	1.00	6.90
ATOM	1206	N	ASP	148	15.333	21.663	-3.736	1.00	5.62
ATOM	1207	CA	ASP	148	14.192	21.610	-4.644	1.00	6.73
ATOM	1208	СЗ	ASP	148	13.006	20.892	-3.990	1.00	7.41
ATOM	1209	CG	ASP	148	13.190	19.397	-3.794	1.00	9.94
ATOM	1210	OD1	ASP	148	14.107	18.824	-4.385	1.00	11.03
ATCM	1211	OD2	ASP	148	12.308	18.805	-3.115	1.00	12.94
	1212	C	ASP	148	13.807	23.013	-5.076	1.00	6.41
ATOM			ASP	148	13.602	23.288	-6.281	1.00	6.39
MOTA	1213	0		149	13.678	23.959	-4.112	1.00	5.67
MOTA	1214	И	VAL		13.287	25.330	-4.472	1.00	5.45
ATOM	1215	CA	VAL	149			-3.279	1.00	5.40
ATOM	1216	CB	VAL	149	12.664	26.047		1.00	5.95
MOTA	1217	CG1	VAL	149	13.656	26.460	-2.202	1.00	6.77
MOTA	1218	CG2	VAL	149	11.883	27.265	-3.771		5.36
MOTA	1219	С	VAL	149	14.421	26.084	-5.158	1.00	
ATOM	1220	0	VAL	149	14.173	26.951	-6.016	1.00	5.85
MOTA	1221	N	PHE	150	15.669	25.750	-4.879	1.00	5.71
ATOM	1222	CA	PHE	150	16.795	26.267	-5.635	1.00	5.05
MOTA	1223	CB	PHE	150	18.111	25.675	-5.056	1.00	6.21
ATOM	1224	CG	PHE	150	19.374	26.154	-5.764	1.00	6.04
MOTA	1225	CD1	PHE	150	20.158	27.164	-5.267	1.00	7.32
MOTA	1226	CD2	PHE	150	19.840	25.565	-6.911	1.00	7.41
		CE1	PHE	150	21.279	27.602	-5.932	1.00	7.77
ATOM	1227		PHE	150	20.926	26.005	-7.649	1.00	8.49
ATOM	1228	CE2		150	21.686	27.017	-7.119	1.00	7.48
MOTA	1229	cz	PHE			25.887	-7.102	1.00	5.89
MOTA	1230	c	PHE	150	16.616		-B.004	1.00	6.52
MOTA	1231	0	PHE	150	16.841	26.726			6.70
ATOM	1232	N	GLY	151	16.276	24.637	-7.351	1.00	
ATOM	1233	CA	GLY	151	16.124	24.168	-8.744	1.00	6.74
ATOM	1234	С	GLY	151	15.012	24.887	-9.476	1.00	6.45
MOTA	1235	0	GLY	151	15.150	25.293	-10.619	1.00	7.27
ATOM	1236	N	. TEA	152	13.867	25.094	-8.825	1.00	6.82
ATOM	1237	CA	LEU	152	12.787	25.878	-9.404	1.00	6.24
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3.50V	1238	СВ	LEU	152	11.582	25.881	-8.452	1.00	6.29
ATOM ATOM	1239	CG	LEU	152	10.452	26.859	-8.828	1.00	7.25
ATOM	1240	CD1	LEU	152	9.864	26.532	-10.214	1.00	9.19
ATOM	1241	CD2	LEU	152	9.358	26.832	-7.763	1.00	7.05
MOTA	1242	С	LEU	152	13.269	27.298 ·	-9.669	1.00 1.00	6.42 7.31
MOTA	1243	0	LEU	152	13.015	27.864	-10.743 -8.702	1.00	5.98
MOTA	1244	N	SER	153	13.998	27.874	-8.845	1.00	6.16
MOTA	1245	CA	SER	153	14.442	29.262 29.742	-7.541	1.00	6.44
MOTA	1246	CB	SER	153 153	15.068 14.090	29.755	-6.522	1.00	6.18
MOTA	1247	og C	SER SER	153	15.424	29.413	-10.000	1.00	6.14
MOTA	1248 1249	0	SER	153	15.368	30.420	-10.740	1.00	6.53
ATOM ATOM	1250	N	SER	154	16.284	28.436	-10.217	1.00	6.45
MOTA	1251	CA	SER	154	17.220	28.495	-11.340	1.00	7.39
ATOM	1252	CB	SER	154	18.126	27.271	-11.278	1.00	8.84
ATOM	1253	O G	SER	154	18.981	27.292	10.189	1.00	13.14
ATOM	1254	C	SER	154	16.418	28.472	-12.643	1.00 1.00	7.57 8.31
ATOM	1255	0	SER	154	16.742	29.253	-13.563 -12.737	1.00	6.91
ATOM	1256	N	ALA	155	15.408	27.630 27.622	-13.938	1.00	7.39
MOTA	1257	CA	ALA	155 155	14.550 13.530	26.520	-13.807	1.00	7.77
MOTA	1258	CB C	ALA ALA	155	13.878	28.964	-14.140	1.00	6.87
ATOM	1259	0	ALA	155	13.895	29.538	-15.242	1.00	7.85
ATOM	1260 1261	N	LEU	156	13.323	29.547	-13.083	1.00	6.99
MOTA MOTA	1262	CA	LEU	156	12.656	30.860	-13.176	1.00	5.86
ATOM	1263	CB	LEU	156	12.035	31.279	-11.838	1.00	5.92
ATOM	1264	CG	LEU	156	10.864	30.434	-11.365	1.00	5.99
ATOM	1265	CD1	LEU	156	10.480	30.809	-9.936	1.00 1.00	8.87 11.48
MOTA	1266	CD2	LEU	156	9.686	30.596	-12.284 -13.642	1.00	6.11
MOTA	1267	С	LEU	156	13.640	31.933 32.805	-14.447	1.00	7.28
ATOM	1268	0	TEA.	156 157	13.287 14.884	31.880	-13.141	1.00	6.74
MOTA	1269	N CA	LEU	157	15.898	32.863	-13.543	1.00	7.25
ATOM	1270 1271	CB	LEU	157	17.152	32.739	-12.694	1.00	6.79
ATOM ATOM	1272	CG	LEU	157	17.073	33.236	-11.250	1.00	7.78
ATOM	1273	CD1	LEJ	157	18.408	33.026	-10.580	1.00	8.46
ATOM	1274	CD2	LEU	157	16.631	34.672	-11.145	1.00	9.12
MOTA	1275	C	LEU	157	16.227	32.748	-15.028	1.00 1.00	6.91 7.24
MOTA	1276	0	LEU	157	16.580	33.763	-15.638 -15.606	1.00	7.38
MOTA	1277	N	LYS	158 158	16.142 16.335	31.561 31.410	-17.057	1.00	7.07
MOTA	1278	CA CB	LYS LYS	158	16.381	29.927	-17.407	1.00	9.01
MOTA MOTA	1279 1280	CG	LYS	158	17.574	29.170	-16.887	1.00	10.48
ATCM	1281	CD	LYS	158	17.541	27.683	-17.122	1.00	13.42
ATOM	1282	CE	LYS	158	18.743	27.039	-16.407	1.00	18.16
ATOM	1283	NZ	LYS	158	18.743	25.572	-16.586	1.00	18.72 7.00
ATOM	1284	C	LYS	158	15.185	32.121	-17.782 -18.770	1.00	9.09
MOTA	1285	0	LYS	158	15.447	32.806 32.032	-17.281	1.00	7.17
MOTA	1286	N	GLY	159 159	13.951 12.834	32.752	-17.873	1.00	7.22
MOTA	1287 1288	CA C	GLY GLY	159	13.038	34.252	-17.763	1.00	6.90
ATOM	1288	0	GLY	159	12.756	34.973	-18.731	1.00	7.59
MOTA MOTA	1290	N	TYR	160	13.443	34.771	-16.620	1.00	7.51
ATOM	1291	CA	TYR	160	13.674	36.230	-16.489	1.00	6.84
MOTA	1292	CB	TYR	160	14.004	36.595	-15.059	1.00	7.03
MOTA	1293	CG	TYR	160	12.831	36.759	-14.120	1.00	6.77
MOTA	1294	CD1	TYR	160	12.421	35.752	-13.251	1.00 1.00	6.69 7.61
MOTA	1295	CE1	TYR	160	11.353	35.915 37.948	-12.430 -14.093	1.00	7.26
MOTA	1296	CD2	TYR	160	12.097	39.108	-13.247	1.00	7.77
MOTA	1297	CE2	TYR	160 160	11.013 10.643	37.083	-12.380	1.00	7.26
MOTA	1298	cz	TYR TYR	160	9.594	37.202	-11.495	1.00	8.86
ATOM	1299	OH C	TYR	160	14.756	36.704	-17.446	1.00	6.38
MOTA MOTA	1300 1301	0	TYR	160	14.653	37.777	-18.003	1.00	7.25
MOTA	1302	N	ALA	161	15.849	35.968	-17.537	1.00	7.30
MOTA	1303	CA	ALA	161	16.929	36.375	-18.438	1.00	7.63
ATOM	1304	СВ	ALA	161	18.083	35.387	-18.293	1.00	9.13
ATOM	1305	С	ALA	161	16.414	36.456	-19.886 -20.577	1.00 1.00	7.60 8.23
MOTA	1306	0	ALA	161	16.688	37.458	-20.577 -20.331	1.00	7.75
MOTA	1307	N	LEU	162	15.755	35.401 35.423	-21.721	1.00	7.67
MOTA	1308	CA	. LEU	162 162	15.234 14.537	34.094	-22.022	1.00	7.94
ATOM	1309 1310	CB CG	LEU	162	15.447	32.872	-22.168	1.00	8.36
ATOM	1310								

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ATOM	1311	CD1	LEU	162	14.644	31.593	-22.325	1.00	10.23
ATOM	1312	CD2	LEU	162	16.390	33.093	-23.326	1.00	10.26
ATOM	1313	С	LEU	162	14.256	36.582	-21.871	1.00	7.87
ATOM	1314	0	LEU	162	14.228	37.234	-22.926	1.00	3.10
MOTA	1315	11	ALA	163	13.396	36.840	-20.874	1.00	7.67
ATOM	1316	CA	ALA	163	12.422	37.934	-20.922	1.00	3.06
ATOM	1317	CB	ALA	163	11.568	37.986	-19.658	1.00	8.57
ATOM	1318	C	ALA	163	13.122	39.278	-21.162	1.00	8.14
ATOM	1319	0	ALA	163	12.527	40.158	-21.830	1.00 1.00	9.20 8.56
MOTA	1320	N	LEU	164 164	14.320 15.075	39.445 40.688	-20.607 -20.710	1.00	8.69
ATOM	1321	CA CB	LEU LEU	164	15.881	40.917	-19.409	1.00	9.34
ATOM ATOM	1322 1323	CG	LEU	164	15.007	41.231	-18.199	1.00	9.92
ATOM	1324	CD1	LEU	164	15.707	40.869	-16.893	1.00	11.23
ATOM	1325	CD2	LEU	164	14.532	42.665	-18.193	1.00	11.47
MOTA	1326	c	LEU	164	15.968	40.800	-21.920	1.00	8.43
ATOM	1327	0	LEU	164	16.728	41.751	-22.068	1.00	10.53
ATOM	1328	N	GLY	165	15.876	39.849	-22.823	1.00	9.22
MOTA	1329	CA	GLY	165	16.653	39.841	-24.034	1.00	9.48
MOTA	1330	C	GLY	165	18.044	39.299	-23.843	1.00	9.17
ATOM	1331	0	GLY	165	18.900	39.539	-24.692	1.00	10.21
ATOM	1332	Ņ	LYS	166	18.298	38.579	-22.754	1.00	9.48
MOTA	1333	CA	LYS	166	19.627	38.033	-22.452	1.00	9.96
ATOM .	1334	CB	LYS	166	19.982	38.274 39.708	-20.984	1.00 1.00	9.69 11.03
MOTA	1335	CG	LYS	166 166	19.946 20.825	40.606	-20.549 -21.352	1.00	14.43
ATOM	1336	CD CE	LYS	166	20.525	42.029	-20.820	1.00	18.44
ATOM	1337 1338	NZ	LYS	166	21.480	42.980	-21.738	1.00	27.60
ATOM ATOM	1339	C	LYS	166	19.669	36.535	-22.725	1.00	9.64
ATOM	1340	ō	LYS	166	18.611	35.926	-22.985	1.00	11.70
ATOM	1341	N	GLU	167	20.837	35.917	-22.660	1.00	9.56
ATOM	1342	CA	GLU	167	20.979	34.447	-22.758	1.00	10.09
ATOM	1343	CB	GLU	167	22.436	34.051	-22.993	1.00	12.65
ATOM	1344	CG	GLU	167	23.380	34.300	-21.838	1.00	22.48
MOTA	1345	CD	GLU	167	23.665	33.149	-20.891	1.00	25.40
ATOM	1346	0E1	GLU	167	23.311	31.984	-21.190	1.00	32.34
MOTA	1347	OE2	GLU	167	24.326	33.330	-19.840	1.00	31.11
ATOM	1348	C	GLU	167	20.484	33.838	-21.438 -20.407	1.00	9.49 10.35
ATCM	1349	N O	GLU GLU	167 168	20.519 19.999	34.524 32.587	-21.453	1.00	9.82
MOTA	1350	CA.	GLU	168	19.298	32.071	-20.295	1.00	9.33
ATOM ATOM	1351 1352	CB	GLU	168	18.638	30.725	-20.586	1.00	10.98
ATOM	1353	CG	GLU	168	19.586	29.555	-20.607	1.00	11.58
ATOM	1354	CD	GLU	168	18.897	28.248	-20.881	1.00	12.24
ATOM	1355	OE1	GLU	168	19.518	27.191	-20.621	1.00	16.73
ATOM	1356	OE2	GLU	168	17.710	28.209	-21.238	1.00	15.75
MOTA	1357	С	GLU	168	20.121	31.991	-19.021	1.00	9.76
ATOM	1358	0	GLU	168	19.500	31.919	-17.957	1.00	10.27
MOTA	1359	N	asn	169	21.440	31.959	-19.098	1.00	11.16
ATOM	1360	CA	ASN	169	22.256	31.849	-17.894	1.00	11.83
ATOM	1361	CB	ASN	169	23.467	30.962	-18.200 -18.442	1.00 1.00	17.37 25.58
ATOM	1362	CG OD1	asn Asn	169 169	23.037 23.422	29.534 28.858	-19.416	1.00	36.44
ATOM	1363 1364	ND2	ASN	169	22.234	29.059	-17.485	1.00	33.88
ATOM ATOM	1365	C	ASN	169	22.665	33.191	-17.342	1.00	10.67
MOTA	1366	ō	ASN	169	23.471	33.254	-16.423	1.00	10.87
MOTA	1367	N	PHE	170	22.101	34.292	-17.818	1.00	9.81
ATOM	1368	CA	PHE	170	22.503	35.641	-17.397	1.00	9.43
ATOM	1369	CB	PHE	170	21.676	36.690	-18.110	1.00	10.54
ATOM	1370	CG	PHE	170	21.970	38.143	-17.807	1.00	10.68
ATOM	1371	CD1	PHE	170	22.971	38.748	-18.561	1.00	11.73
MOTA	1372	CD2	PHE	170	21.249	38.844	-16.841	1.00	11.45
MOTA	1373	CE1	PHE	170	23.277	40.069	-18.325	1.00	13.22
MOTA	1374	CE2	PHE	170	21.601	40.156	-16.603	1.00	13.30
ATOM	1375	cz	PHE	170	22.581	40.787	-17.369 -15.896	1.00 1.00	13.73 9.39
ATOM	1376	c	PHE	170 170	22.466 23.388	35.905 36.499	-15.313	1.00	10.53
ATOM	1377	o N	PHE	171	23.388	35.499	-15.249	1.00	9.21
MOTA MOTA	1378 1379	CA	PHE	171	21.328	35.485	-13.799	1.00	9.20
ATOM	1379	СВ	PHE	171	19.882	35.735	-13.353	1.00	9.39
ATOM	1381	CG	PHE	171	19.270	37.023	-13.840	1.00	9.53
ATOM	1382	CD1	PHE	171	18.199	36.958	-14.716	1.00	8.43
ATOM	1383	CD2	PHE	171	19.751	38.247	-13.409	1.00	9.70

ATOM	1384	CE1	PHE	171	17.637	38.140	-15.183	1.00	9.69
ATOM	1385	CE2	PHE	171	19.208	39.427	-13.881	1.00	11.03
ATOM	1386	CZ	PHE	171	18.138	39.369	-14.774	1.00	9.32
ATOM	1387	С	PHE	171	21.798	34.187	-13.158	1.00	9.45
ATOM	1388	0	PHE	171	22.557	34.196	-12.160	1.00	10.11
MOTA	1389	N	ALA	172	21.386	33.058	-13.727	1.00	8.64
ATOM	1390	CA	ALA	172	21.662	31.758	-13.141	1.00	9.25
ATOM	1391	CB	ALA	172	20.995	30.619	-13.907	1.00	11.46
ATOM	1392	C	ALA	172	23.144	31.456	-12.935	1.00	9.80
MOTA	1393	0	ALA	172	23.515	30.728	-12.017	1.00	9.88
ATOM	1394	N	ARG	173	24.014	32.048	-13.757	1.00	10.46
ATOM	1395	CA	ARG	173	25.456	31.811	-13.607	1.00	10.74
ATOM	1396	CB	ARG	173	26.229	32.377	-14.804	1.00	12.02
ATOM	1397	CG	ARG	173	26.253	33.888	-14.845	1.00	14.37
ATOM	1398	CD	ARG	173	26.528	34.507	-16.235	1.00	22.60
ATOM	1399	NE	ARG	173		35.904	-16.110		
					26.118			1.00	29.23
MOTA	1400	CZ	ARG	173	26.204	37.054	-16.666	1.00	27.71
ATOM	1401	NH1	ARG	173	26.785	37.249	-17.871	1.00	38.25
ATOM	1402	NH2	ARG	173	25.671	38.128	-16.092	1.00	20.56
ATOM	1403	С	ARG	173	25.967	32.398	-12.321	1.00	10.00
ATOM	1404	0	ARG	173	27.059	31.984	-11.891	1.00	12.18
ATOM	1405	N	HIS	174	25.265	33.305	-11.671		
								1.00	8.86
ATOM	1406	CA	HIS	174	25.621	33,884	-10.385	1.00	8.97
ATOM	1407	CB	HIS	174	25.281	35.380	-10.393	1.00	9.34
ATOM	1408	CG	HIS	174	25.986	36.119	-11.478	1.00	11.02
MOTA	1409	CD2	HIS	174	27.271	36.548	-11.356	1.00	13.05
MCTA	1410	ND1	HIS	174	25.560	36.543	-12.686	1.00	15.18
ATOM	1411	CEL	HIS	174	26.532	37.180	-13.306	1.00	16.14
ATOM	1412	NE2	HIS	174	27.575	37.238	-12.505	1.00	17.60
MOTA	1413	С	HIS	174	24.864	33.267	-9.203	1.00	8.17
ATOM	1414	0	HIS	174	25.053	33.704	-8.067	1.00	10.44
ATOM	1415	N	PHE	175	24.093	32.251	-9.482	1.00	8.57
ATOM	1416	CA	PHE	175	23.230	31.536	-8.516	1.00	7.07
ATOM	1417	CB	PHE	175	21.772	31.678	-8.967	1.00	7.09
ATOM	1418	CG	PHE	175	20.743	31.096	-8.020	1.00	6.00
ATOM	1419	CD1	PHE	175	19.888	30.101	-8.409	1.00	6.11
ATOM	1420	CD2	PHE	175	20.644	31.566	-6.725	1.00	6.48
ATOM	1421	CE1	PHE	175	18.940	29.615	-7.548	1.00	7.35
ATOM	1422	CE2	PHE	175	19.709	31.073	-5.837	1.00	7.65
ATOM	1423	CZ	PHE	175	18.834	30.096	-6.266	1.00	7.87
ATOM	1424	C	PHE	175	23.686	30.089	-8.421	1.00	7.96
ATOM	1425	ō	PHE	175	23.298	29.250	-9.248	1.60	
									8.40
MOTA	1426	N	LYS	176	24.602	29.813	-7.494	1.00	7.81
MOTA	1427	CA	LYS	176	25.320	28.576	-7.473	1.00	7.94
MOTA	1428	CB	LYS	176	26.813	28.901	-7.674	1.00	10.84
MOTA	1429	CG	LYS	176	27.215	29.556	-8.956	1.00	15.51
MOTA	1430	CD	LYS	176	28.584	30.190	-8.877	1.00	23.52
ATOM	1431	CE	LYS	176	28.905	31.261	-7.886	1.00	31.75
MOTA	1432	NZ	LYS	176	28.155	32.528	-7.591	1.00	30.18
ATOM	1433	С	LYS	176	25.206	27.890	-6.114	1.00	7.44
ATOM	1434	0	LYS	176	25.237	28.596	-5.079	1.00	7.02
ATOM	1435	N	PRO	177	25.115	26.568	-6.114	1.00	7.06
ATOM	1436	CD	PRO	177	25.016	25.639	-7.241	1.00	8.87
ATOM	1437	CA	PRO	177	24.978	25.874	-4.841	1.00	7.22
ATCM	1438	C3	PRO	177	24.960	24.392	-5.244	1.00	9.12
MOTA	1439	CG	PRO	177	24.494	24.351	-6.632	1.00	12.20
ATOM	1440	С	PRO	177	26.107	26.128	-3.866	1.00	6.45
ATOM	1441	0	PRO	177	25.842	26.133	-2.655	1.00	6.96
ATOM	1442	N	ASP	178	27.355	26.340	-4.296	1.00	7.00
ATOM	1443	CA	ASP	178	28.432	26.494	-3.322	1.00	7.82
ATOM	1444	СВ	ASP	178	29.784	26.223	-3.996	1.00	7.64
MOTA	1445	CG	ASP	178	30.055	24.770	-4.225	1.00	8.62
ATOM	1446	OD1	ASP	178	29.305	23.888	-3.752	1.00	10.49
ATOM	1447	OD2	ASP	178	31.072	24.504	-4.927	1.00	9.66
ATOM	1448	С	ASP	178	28.418	27.826	-2.624	1.00	8.41
ATOM	1449	0	ASP	178	29.053	27.922	-1.567	1.00	11.48
ATOM	1450	N	ASP	179	27.747	28.844	-3.172	1.00	7.61
ATOM	1451	CA	ASP	179	27.868	30.160	-2.558	1.00	8.48
ATOM	1452	СВ	ASP	179	29.017	31.003	-3.110	1.00	14.39
ATOM	1453	CG	ASP	179	28.896	31.215	-4.582	1.00	17.08
MOTA	1454	OD1	ASP	179	27.769	31.231	-5.087	1.00	18.23
ATOM	1455	OD2	ASP	179	29.974	31.247	-5.214	1.00	29.01
ATOM	1456	С	ASP	179	26.622	30.999	-2.437	1.00	6.67
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ATOM	1457	0	ASP	179	26.723	32.118	-1.937	1.00	7.91
MOTA	1458	N	THR	180	25.459	30.574	-2.903	1.00	6.15
MOTA	1459	CA	THR	180	24.291	31.397	-2.818	1.00	5.45
MOTA	1460	CB	THR	180	23.051	30.717	-3.495	1.00	6.14
MOTA	1461	OG1	THR	180	21.933	31.564	-3.275	1.00 1.00	6.60 7.19
MOTA	1462	CG2	THR	180	22.728	29.384 31.823	-2.872 -1.404	1.00	5.42
MOTA	1463	C	THR	180 180	23.929 23.995	31.022	-0.488	1.00	6.17
MOTA	1464 1465	о И	THR Leu	181	23.568	33.098	-1.291	1.00	5.82
MOTA MCTA	1466	CA	LEU	181	23.100	33.709	-0.086	1.00	5.33
MOTA	1467	CB	LEU	181	23.535	35.173	0.000	1.00	5.68
ATOM	1468	CG	LEU	181	25.031	35.342	0.214	1.00	7.12
ATOM	1469	CD1	LEU	181	25.527	36.714	-0.116	1.00	9.05
ATOM	1470	CD2	LEU	181	25.431	34.952	1.631	1.00	9.04
ATOM	1471	С	LEU	181	21.596	33.554	0.126	1.00	5.36
MOTA	1472	0	LEU	181	21.002	34.159	1.018	1.00	5.78 5.62
MOTA	1473	N	ALA	182	20.943	32.746	-0.705 -0.607	1.00 1.00	5.62
ATOM	1474	CA	ALA	182 182	19.499 19.041	32.518 31.560	-1.713	1.00	5.84
ATOM	1475 1476	CB C	ALA ALA	182	19.111	31.916	0.741	1.00	5.26
ATOM ATOM	1477	0	ALA	182	19.829	31.152	1.390	1.00	5.11
MOTA	1478	N	SER	183	17.929	32.266	1.215	1.00	5.45
ATOM	1479	CA	SER	183	17.387	31.766	2.475	1.00	5.43
MOTA	1480	СВ	SER	183	17.361	32.908	3.478	1.00	6.48
MOTA	1481	OG	SER	183	16.484	33.920	3.050	1.00	7.39
ATOM	1482	С	SER	183	15.975	31.229	2.287	1.00	5.28
MOTA	1483	0	SER	183	15.220	31.691	1.430	1.00	5.14 4.72
MOTA	1484	N	VAL	184	15.624	30.298 29.833	3.167 3.379	1.00	4.18
ATOM	1485	CA	VAL VAL	184 184	14.272 14.156	28.311	3.410	1.00	4.82
ATCM	1486 1487	CB CGl	VAL	184	12.784	27.827	3.825	1.00	5.78
ATCM ATCM	1488	CG2	VAL	184	14.574	27.702	2.084	1.00	5.85
ATOM	1489	C	VAL	184	13.803	30.392	4.728	1.00	4.63
ATOM	1490	0	VAL	184	14.563	30.341	5.712	1.00	5.58
ATCM	1491	N	VAL	185	12.571	30.872	4.785	1.00	5.40
MOTA	1492	CA	VAL	185	11.960	31.260	6.049	1.00	5.11
ATCM	1493	CB	VAL	185	11.732	32.758	6.222	1.00	5.44
ATOM	1494	CG1	VAL	185	11.355	33.084	7.659	1.00 1.00	7.04 7.05
MOTA	1495	CG2	VAL	185	12.974 10.664	33.556 30.482	5.824 6.215	1.00	5.37
ATOM	1496	C	VAL VAL	185 185	9.793	30.537	5.354	1.00	6.79
ATOM ATOM	1497 1498	N O	LEU	186	10.525	29.766	7.340	1.00	5.04
ATOM	1499	CA	LEU	186	9.312	29.030	7.659	1.00	5.37
ATOM	1500	СВ	LEU	186	9.608	27.651	8.191	1.00	6.74
ATOM	1501	CG	LEU	186	10.519	26.783	7.329	1.00	7.22
MOTA	1502	CD1	LEU	186	10.783	25.457	B.026	1.00	8.08
MOTA	1503	CD2	LEU	186	9.933	26.589	5.923	1.00	7.11
ATOM	1504	С	LEU	186	8.512	29.883	8.645	1.00	5.24 6.31
MOTA	1505	0	LEU	186	8.777	29.826 30.701	9.854 8.165	1.00 1.00	5.56
MOTA	1506	N	ILE	187 187	7.577 6.864	31.641	9.010	1.00	5.65
ATOM	1507 1508	CA CB	ILE	187	6.589	32.984	8.305	1.00	6.04
MOTA MOTA	1509	CG2	ILE	187	5.916	33.986	9.250	1.00	7.75
ATOM	1510	CG1	ILE	187	7.804	33.601	7.633	1.00	6.80
ATOM	1511	CD1	ILE	187	7.550	34.739	6.667	1.00	7.49
ATOM	1512	c	ILE	187	5.511	31.068	9.440	1.00	6.09
MOTA	1513	0	ILE	187	4.740	30.565	8.617	1.00	6.78
MOTA	1514	N	ARG	188	5.253	31.145	10.736	1.00	6.56
ATOM	1515	CA	ARG	188	3.970	30.800	11.332	1.00	6.28
ATOM	1516	СВ	ARG	188	4.130	29.967	12.611 13.245	1.00 1.00	7.38 7.70
ATOM	1517	CG	ARG	188	2.799	29.623 29.038	14.641	1.00	9.29
ATOM	1518	CD	ARG ARG	188 188	2.926 1.588	28.821	15.185	1.00	11.11
ATOM ATOM	1519 1520	NE CZ	ARG	188	1.357	28.454	16.431	1.00	12.61
ATOM	1521	NHl	ARG	188	2.357	28.232	17.264	1.00	16.10
ATOM	1522	NH2	ARG	188	0.090	28.327	16.815	1.00	16.40
ATOM	1523	c	ARG	188	3.224	32.081	11.714	1.00	6.29
ATOM	1524	0	ARG	188	3.714	32.892	12.499	1.00	7.23
MOTA	1525	N	TYR	189	2.053	32.239	11.099	1.00	6.43
ATOM	1526	CA	TYR	189	1.129	33.301	11.534	1.00	6.36
ATOM	1527	CB	TYR	189	0.565	33.997	10.302	1.00	7.87
MOTA	1528	CG	TYR	189	1.432	35.109 34 959	9.770 8.649	1.00 1.00	7.69 8.11
MOTA	1529	CD1	TYR	189	2.245	34.959	0.047	1.00	0.11

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ATOM	1530	CE1	TYR	189	3.023	36.028	8.202	1.00	8.55
ATOM	1531	CD2	TYR	189	1.433	36.344	10.407	1.00	8.98
MOTA	1532	CE2	TYR	189	2.188	37.415	9.969	1.00	9.17
ATOM	1533	CZ	TYR	189	2.981	37.241	8.841	1.00	8.58 11.03
MOTA	1534	OH	TYR	189	3.728	38.328	8.379 12.300	1.00 1.00	7.25
MOTA	1535	С	TYR	189	0.033	32.562 31.766	11.696	1.00	8.05
MOTA	1536	0	TYR	189 190	-0.678 -0.137	32.811	13.576	1.00	6.97
MOTA	1537	N	PRO PRO	190	0.666	33.760	14.412	1.00	7.48
ATOM	1538 1539	CD CA	PRO	190	-1.091	32.037	14.367	1.00	7.93
ATOM ATOM	1540	CB	PRO	190	-0.484	32.215	15.773	1.00	9.03
MOTA	1541	CG	PRO	190	-0.032	33.667	15.732	1.00	8.65
ATOM	1542	С	PRO	190	-2.516	32.564	14.390	1.00	7.31
ATOM	1543	0	PRO	190	-2.768	33.746	14.183	1.00	7.83
ATOM	1544	N	TYR	191	-3.428	31.672	14.740	1.00	e.07
MOTA	1545	CA	TYR	191	-4.758	32.035	15.189	1.00 1.00	8.05
MOTA	1546	CB	TYR	191	-5.741	30.882	15.033 15.645	1.00	9.47 8.74
MOTA	1547	CG	TYR	191	-7.089 -7.981	31.164 32.032	15.052	1.00	10.94
ATOM	1548	CD1	TYR	191 191	-9.203	32.283	15.640	1.00	12.35
MOTA	1549	CE1 CD2	TYR TYR	191	-7.434	30.628	16.867	1.00	11.98
ATOM	1550 1551	CE2	TYR	191	-8.662	30,860	17.464	1.00	13.36
ATOM ATOM	1552	CZ	TYR	191	-9.520	31.710	16.847	1.00	13.52
ATOM	1553	OH	TYR	191	-10.758	31.949	17.411	1.00	20.40
ATOM	1554	С	TYR	191	-4.634	32.352	16.687	1.00	8.41
ATOM	1555	0	TYR	191	-4.028	31.574	17.419	1.00	10.11
MOTA	1556	N	LEU	192	-5.188	33.493	17.089	1.00	9.02 9.80
MOTA	1557	CA	LEU	192	-5.170	33.901	18.490 18.751	1.00 1.00	10.70
MOTA	1558	CB	LEU	192	-4.106	35.000 34.624	18.449	1.00	11.38
ATOM	1559	CG	LEU	192 192	-2.670 -1.779	35.835	18.366	1.00	15.17
ATOM	1560	CD1 CD2	LEU LEU	192	-2.195	33.545	19.376	1.00	14.95
ATOM	1561 1562	C	LEU	192	-6.524	34.466	18.870	1.00	11.59
ATOM ATOM	1563	Õ	LEU	192	-7.087	35.298	18.167	1.00	13.64
MOTA	1564	N	ASP	193	-7.038	34.106	20.036	1.00	14.51
ATOM	1565	CA	ASP	193	-8.305	34.590	20.567	1.00	17.44
ATOM	1566	С	ASP	193	-8.162	34.839	22.054	1.00	18.14
MOTA	1567	0	ASP	193	-8.094	33.884	22.833	1.00 1.00	20.69 19.90
ATOM	1568	CB	ASP	193	-9.424	33.558	20.361 20.844	1.00	22.56
MOTA	1569	CG	ASP	193	-10.778	34.035 35.239	21.071	1.00	31.28
ATOM	1570	OD1	ASP ASP	193 193	-10.950 -11.705	33.195	20.904	1.00	31.66
ATOM	1571	OD2 N	PRO	194	-8.007	36.055	22.502	1.00	19.75
MOTA MOTA	1572 1573	CD	PRO	194	-7.751	36.353	23.938	1.00	21.02
ATOM	1574	CA	PRO	194	-8.074	37.262	21.705	1.00	20.34
ATOM	1575	СВ	PRO	194	-8.358	38.337	22.780	1.00	22.22
MOTA	1576	CG	PRO	194	-7.623	37.846	23.976	1.00	23.24
ATOM	1577	С	PRO	194	-6.794	37.553	20.961	1.00	18.30
ATOM	1578	0	PRO	194	-5.732	37.174	21.441	1.00 1.00	20.47 16.09
MOTA	1579	N	TYR	195	-6.908	38.261	19.844 19.057	1.00	13.39
MOTA	1580	CA	TYR	195 195	-5.729 -6.063	38.654 38.748	17.591	1.00	11.89
MOTA	1581	CB	TYR	195	-4.857	38.589	16.678	1.00	10.40
MOTA	1582	CG CD1	TYR TYR	195	-4.733	37.428	15.902	1.00	9.05
ATOM	1583 1584	CE1	TYR	195	-3.668	37.229	15.052	1.00	9.43
ATOM ATOM	1585	CD2	TYR	195	-3.867	39.556	16.532	1.00	11.25
MOTA	1586	CE2	TYR	195	-2.801	39.370	15.678	1.00	10.47
ATOM	1587	CZ	TYR	195	-2.706	38.217	14.940	1.00	9.27
ATOM	1588	OH	TYR	195	-1.631	38.037	14.084	1.00	10.15
ATOM	1589	С	TYR	195	-5.251	40.015	19.570	1.00	16.02 19.50
MOTA	1590	0	TYR	195	-6.045	40.984	19.547	1.00 1.00	19.30
MOTA	1591	N	PRO	196	-4.015	40.101	20.038 19.944	1.00	20.75
ATOM	1592	CD	PRO	196	-2.943 -3.555	39.107 41.366	20.632	1.00	22.65
MOTA	1593	CA	PRO	196 196	-3.555 -2.113	41.061	21.050	1.00	24.78
MOTA	1594	CB	PRO PRO	196	-2.113 -1.702	39.919	20.178	1.00	25.22
ATOM	1595 1596	CG C	PRO	196	-3.528	42.534	19.659	1.00	21.80
MOTA	1596 1597	0	PRO	196	-2.893	42.411	18.610	1.00	18.33
MOTA MOTA	1598	и	ALA	197	-4.121	43.655	20.069	1.00	20.80
ATOM	1599	CA	ALA	197	-4.137	44.850	19.209	1.00	17.10
MOTA	1600	CB	ALA	197		45.932	19.849	1.00	22.74
ATOM	1601	С	ALA	197		45.332	18.943	1.00	16.42
MOTA	1602	0	ALA	197	-2.416	45.845	17.884	1.00	14.48

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ATOM	1603	N	ALA	198	-1.80€	45.093	19.872	1.00	18.94
	1604	CA	ALA	198	-0.457	45.551	19.663	1.00	18.82
MOTA		CB	ALA	198	0.389	45.537	20.917	1.00	21.76
MOTA	1605		ALA	198	0.247	44.830	18.532	1.00	20.09
MOTA	1606	С		198	1.209	45.380	17.989	1.00	20.87
MOTA	1607	0	ALA		-0.282	43.655	18.148	1.00	18.02
ATOM	1608	N	ALA	199		42.883	17.055	1.00	20.04
MOTA	1609	CA	ALA	199	0.284		17.305	1.00	22.29
MOTA	1610	CB	ALA	199	0.131	41.377			17.65
ATOM	1611	С	ALA	199	-0.405	43.201	15.745	1.00	
	1612	o	ALA	199	-0.143	42.526	14.746	1.00	19.33
ATOM		N	ILE	200	-1.272	44.187	15.758	1.00	14.55
MOTA	1613		ILE	200	-2.007	44.619	14.572	1.00	12.89
MOTA	1614	CA			-3.524	44.490	14.735	1.00	12.11
ATOM	1615	CB	ILE	200		44.933	13.481	1.00	15.92
ATOM	1616	CG2	ILE	200	-4.273		15.169	1.00	12.87
MOTA	1617	CG1	ILE	200	-3.933	43.079		1.00	15.12
ATOM	1618	CD1	ILE	200	-5.369	42.887	15.559		
ATOM	1619	С	ILE	200	-1.604	46.049	14.242	1.00	12.80
	1620	ō	ILE	200	-1.722	46.945	15.061	1.00	15.14
MOTA		N	LYS	201	-1.079	46.217	13.030	1.00	12.46
MOTA	1621			201	-0.723	47.561	12.585	1.00	13.42
MOTA	1622	CA	LYS			48.108	11.711	1.00	12.82
ATOM	1623	С	LYS	201	-1.842		11.198	1.00	12.98
MOTA	1624	0	LYS	201	-2.682	47.341		1.00	15.55
ATOM	1625	CB	LÄS	201	0.575	47.555	11.793		22.73
ATOM	1625	CG	LYS	201	1.786	47.469	12.720	1.00	
	1627	CD	LYS	201	2.968	47.442	11.792	1.00	30.21
ATOM		CE	LYS	201	3.330	45.969	11.633	1.00	33.55
MOTA	1628		LYS	201	4.352	45.602	12.674	1.00	44.14
MOTA	1629	NZ			-1.844	49.414	11.525	1.00	12.30
MOTA	1630	N	THR	202	-2.896	50.018	10.731	1.00	12.03
MOTA	1631	CA	THR	202			11.654	1.00	14.94
ATOM	1632	CB	THR	202	-3.769	50.900		1.00	20.93
NOTA	1533	OG1	THR	202	-4.283	50.136	12.749		16.31
MOTA	1634	CG2	THR	202	-4.968	51.401	10.876	1.00	
	1635	C	THR	202	-2.353	50.883	9.608	1.00	10.86
MOTA			THR	202	-1.574	51.831	9.881	1.00	12.79
MOTA	1636	0		203	-2.710	50.593	8.362	1.00	10.61
ATOM	1637	n	ALA		-2.246	51.412	7.251	1.00	10.61
MOTA	1638	CA	ALA	203		50.704	5.923	1.00	10.92
MOTA	1639	CB	ALA	203	-2.554		7.177	1.00	11.45
ATOM	1640	С	ALA	203	-2.907	52.771		1.00	12.75
ATOM	1641	0	ALA	203	-3.927	53.003	7.798		13.11
ATOM	1642	N	ALA	204	-2.316	53.701	6.418	1.00	
		CA	ALA	204	-2.922	55.016	6.262	1.00	14.24
MOTA	1643	CB	ALA	204	-2.081	55.921	5.383	1.00	17.62
MOTA	1644			204	-4.312	54.951	5.666	1.00	15.18
ATOM	1645	С	ALA			55.828	5.979	1.00	18.40
MOTA	1646	0	ALA	204	-5.116		4.910	1.00	14.70
MOTA	1647	N	ASP	205	-4.656	53.935	4.378	1.00	15.08
MOTA	1648	CA	ASP	205	-6.010	53.765			14.53
MOTA	1649	CB	ASP	205	-5.939	53.130	2.979	1.00	
	1650	CG	ASP	205	-5.558	51.681	2.919	1.00	13.86
MOTA		OD1	ASP	205	-5.431	51.036	3.978	1.00	13.58
MOTA	1651			205	-5.414	51.137	1.785	1.00	14.56
MOTA	1652	OD2	ASP		-6.958	53.042	5.330	1.00	13.99
ATOM	1653	С	ASP	205		52.729	4.944	1.00	16.91
ATOM	1654	0	ASP	205	-8.100		6.523	1.00	13.46
ATOM	1655	N	GLY	206	-6.470	52.672			13.34
ATOM	1656	CA	GLY	206	-7.305	51.999	7.498	1.00	12.65
	1657	C	GLY	206	-7.215	50.496	7.536	1.00	
MOTA			GLY	206	-7.688	49.850	8.492	1.00	15.08
MOTA	1658	0		207	-6.523	49.909	6.562	1.00	11.08
MOTA	1659	N	THR		-6.383	48.461	6.501	1.00	10.33
MOTA	1660	CA	THR	207			5.186	1.00	10.43
MOTA	1661	CB	THR	207	-5.728	48.047	4.068	1.00	11.13
ATOM	1662	OG1	THR	207	-6.475	48.593		1.00	11.62
	1663	CG2	THR	207	-5.730	46.528	5.000		
MOTA		c	THR	207	-5.542	47.948	7.669	1.00	10.83
MOTA	1664		THR	207	-4.460	48.451	7.944	1.00	11.23
MOTA	1665	0		208		46.906	8.322	1.00	10.43
MOTA	1666	N	LYS			46.251	9.393	1.00	10.06
MOTA	1667	CA	LYS	208			10.281	1.00	10.90
ATOM	1668	CB	LYS	208		45.472	10.231	1.00	15.45
ATOM	1669	CG	LYS	208		46.400		1.00	21.10
ATOM	1670	CD	LYS	208	-8.216	45.550	11.860		
	1671	CE	LYS	208	-9.070	46.277	12.858	1.00	25.92
MOTA		NZ	LYS	208		45.455	13.309	1.00	35.34
MOTA	1672		LYS	208		45.341	8.753	1.00	8.69
MOTA	1673	c				44.523	7.893	1.00	8.73
ATOM	1674	0	LYS	208		45.470	9.211	1.00	8.66
ATOM	1675	N	LEU	209	-3.058	73.77	2		

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MOTA	1676	CA	LEU	209	-1.912	44.745	8.686	1.00	8.20
ATOM	1677	CB	LEU	209	-0.919	45.780	8.126	1.00	8.17
MOTA	1678	CG	LEU	209	-1.407	46.777	7.084	1.00	8.96
MOTA	1679	CD1	LEU	209	-0.263	47.711	6.737	1.00	10.26
MOTA	1680	CD2	LEU	209	-1.959	46.077	5.837	1.00	9.92
MOTA	1681	С	LEU	209	-1.149	43.969	9.733	1.00	8.39 9.60
MOTA	1682	0	LEU	209	-1.077	44.308	10.910 9.250	1.00 1.00	7.50
MOTA	1683	N	SER SER	210 210	-0.445 0.555	42.944 42.241	10.017	1.00	8.27
ATOM	1684 1685	CA CB	SER	210	0.333	40.717	9.879	1.00	9.13
ATOM ATOM	1686	OG	SER	210	-0.677	40.154	10.458	1.00	10.38
ATOM	1687	Ċ	SER	210	1.958	42.709	9.625	1.00	8.92
ATOM	1688	0	SER	210	2.857	42.559	10.430	1.00	11.07
ATOM	1689	Ŋ	PHE	211	2.153	43.228	8.404	1.00	8.41
MOTA	1690	CA	PHE	211	3.465	43.640	7.944	1.00	8.42
MOTA	1691	CB	PHE	211	4.294	42.502	7.351	1.00	9.04
MOTA	1692	CG	PHE	211	5.784	42.797	7.169	1.00	8.29 9.90
ATOM	1693	CD1	PHE	211	6.656	42.844	8.237 5.916	1.00 1.00	8.43
MOTA	1694	CD2	PHE	211 211	6.316 8.014	43.023 43.064	8.074	1.00	9.71
ATOM	1695 1696	CE1 CE2	PHE	211	7.649	43.256	5.735	1.00	9.43
ATOM ATOM	1697	CZ	PHE	211	8.515	43.240	6.804	1.00	8.86
MOTA	1698	c	PHE	211	3.249	44.762	6.938	1.00	7.66
ATOM	1699	ō	PHE	211	2.415	44.662	6.051	1.00	8.72
ATOM	1700	N	GLU	212	3.963	45.856	7.143	1.00	7.99
MOTA	1701	CA	GLU	212	3.752	47.072	6.365	1.00	7.78
MOTA	1702	CB	GLU	212	4.267	46.319	7.076	1.00	10.35
MOTA	1703	CG	GLU	212	3.201	49.142	7.809	1.00	15.96 17.40
ATOM	1704	CD	GLU	212	2.280	49.935 50.866	6.895 7.415	1.00 1.00	19.49
ATOM	1705	OE1 OE2	GLU GLU	212 212	1.606 2.214	49.708	5.623	1.00	15.01
MOTA MOTA	1706 1707	C	GLU	212	4.328	46.972	4.954	1.00	7.86
ATOM	1708	ō	GLU	212	5.006	46.040	4.555	1.00	8.28
MOTA	1709	N	TRP	213	3.992	47.997	4.162	1.00	8.57
ATOM	1710	CA	TRP	213	4.464	48.141	2.806	1.00	8.31
ATOM	1711	CB	TRP	213	3.999	49.421	2.155	1.00	8.34
ATCM	1712	CG	TRP	213	4.620	50.707	2.603	1.00	9.80
ATOM	1713	CD2	TRP	213	5.776	51.317	2.074 2.784	1.00 1.00	11.28 12.37
ATOM	1714	CE2	TRP	213 213	5.977 6.644	52.520 50.973	1.031	1.00	12.51
ATOM	1715	CE3	TRP TRP	213	4.181	51.522	3.610	1.00	10.15
ATOM ATOM	1716 1717	NE1	TRP	213	4.980	52.619	3.734	1.00	12.18
ATOM.	1718	CZ2	TRP	213	7.053	53.363	2.474	1.00	14.69
ATOM	1719	CZ3	TRP	213	7.687	51.805	0.735	1.00	13.88
ATOM	1720	CH2	TRP	213	7.887	52.990	1.460	1.00	15.53
MOTA	1721	С	TRP	213	5.991	48.089	2.741	1.00	7.51
ATOM.	1722	0	TRP	213	6.720	48.548	3.592	1.00	8.44
MOTA	1723	N	HIS	214	6.470	47.422	1.657	1.00	7.74
ATOM	1724	CA	HIS	214	7.890	47.280	1.443	1.00 1.00	7.66 7.45
ATOM	1725	CB	HIS	214	8.495 7.976	46.246 44.860	2.447 2.273	1.00	7.43
ATOM	1726	CG CD2	HIS HIS	214 214	8.527	43.765	1.682	1.00	7.28
MOTA MOTA	1727 1728	ND1	HIS	214	6.682	44.495	2.637	1.00	6.92
ATOM	1729	CE1	HIS	214	6.501	43.234	2.298	1.00	7.44
ATOM	1730	NE2	HIS	214	7.581	42.759	1.734	1.00	7.83
ATOM	1731	C	HIS	214	8.125	46.789	0.014	1.00	6.97
ATOM	1732	0	HIS	214	7.212	46.319	-0.642	1.00	7.95
ATOM	1733	N	GLU	215	9.384	46.910	-0.408	1.00	7.78
ATOM	1734	CA	GLU	215	9.921	46.216	-1.569	1.00 1.00	8.05 9.46
ATOM	1735	CB	GLU	215	10.780	47.140	-2.413 -3.051	1.00	11.54
ATOM	1736	CG	GLU	215	10.056 10.919	48.276 49.189	-3.900	1.00	16.19
ATOM	1737	CD CE1	GLU GLU	215 215	10.919	49.189	-3.934	1.00	15.97
ATOM	1738 1739	OE1 OE2	GLU	215	10.349	50.051	-4.616	1.00	23.46
ATOM ATOM	1740	C	GLU	215	10.805	45.070	-1.025	1.00	8.11
ATOM	1741	0	GLU	215	11.385	45.184	0.071	1.00	8.95
ATOM	1742	N	ASP	216	10.913	43.985	-1.761	1.00	7.98
ATOM	1743	CA	ASP	216	11.723	42.873	-1.305	1.00	6.84
ATOM	1744	CB	ASP	216	11.363	41.564	-1.990	1.00	7.14
ATOM	1745	CG	ASP	216	10.037	40.991	-1.580	1.00	6.78
MOTA	1746	OD1	ASP	216	9.415	41.594	-0.693	1.00	7.44 7.77
ATOM	1747	OD2 ·	ASP	216	9.648	39.909 43.128	-2.098 -1.469	1.00 1.00	6.24
ATOM	1748	С	ASP	216	13.214	43.120	2.107	2.00	J. 1 1

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ATOM	1749	0	ASP	216	13.696	43.704	-2.450	1.00	7.93
ATOM	1750	N	VAL	217	13.931	42.555	-0.509	1.00	6.61
ATOM	1751	CA	VAL	217	15.369	42.439	-0.559	1.00	6.71
ATOM	1752	CB	VAL	217	16.050	42.687	0.780	1.00	7.87
MOTA	1753	CG1	VAL	217	17.568	42.640	0.641	1.00	9.01
ATOM	1754	CG2	VAL	217	15.613	44.001	1.353	1.00	9.65
ATOM	1755	С	VAL	217	15.714	41.072	-1.150	1.00	6.75
MOTA	1756	0	VAL	217	15.769	40.051	-0.482	1.00	7.26
MOTA	1757	N	SER	218	15.852	41.047	-2.476	1.00	6.83
MOTA	1758	CA	SER	218	16.056	39.850	-3.257	1.00	6.43
MOTA	1759	CB	SER	218	14.837	38.910	-3.175	1.00 1.00	6.60
ATOM	1760	OG	SER	218	13.749	39.472	-3.890 -4.722	1.00	6.81 5.92
MOTA	1761	C	SER	218	16.304	40.211 41.351	-5.112	1.00	6.97
ATOM	1762	N O	SER Leu	218 219	16.044 16.723	39.209	-5.488	1.00	6.04
ATOM	1763 1764	CA	LEU	219	16.663	39.294	-6.937	1.00	6.10
ATOM ATOM	1765	CB	LEU	219	17.722	38.393	-7.569	1.00	6.78
ATOM	1766	CG	LEU	219	17.728	38.321	-9.097	1.00	7.82
ATOM	1767	CD1	LEU	219	18.034	39.650	-9.731	1.00	9.76
ATOM	1768	CD2	LEU	219	18.660	37.225	-9.589	1.00	8.26
ATOM	1769	C	LEU	219	15.218	38.982	-7.341	1.00	5.92
ATOM	1770	0	LEU	219	14.541	39.784	- 7.957	1.00	6.32
MOTA	1771	N	ILE	220	14.743	37.780	-6. 9 65	1.00	5.60
ATOM	1772	CA	ILE	220	13.342	37.411	-7.010	1.00	5.79
MOTA	1773	CB	ILE	220	12.950	36.552	-8.228	1.00	6.51
MOTA	1774	CG2	ILE	220	13.285	37.295	-9.523	1.00	7.78
MOTA	1775	CG1	ILE	220	13.563	35.144	-8.189	1.00	6.95
MOTA	1776	CD1	ILE	220	13.002	34.222	-9.250 -5.712	1.00 1.00	7.96 5.16
MOTA	1777	C	ILE	220 220	12.977 13.869	36.695 36.252	-5.712 -4.968	1.00	5.70
MOTA	1778	0	ILE THR	221	11.694	36.656	-5.419	1.00	5.46
MOTA	1779 1780	n Ca	THR	221	11.121	35.981	-4.263	1.00	6.07
ATOM ATOM	1781	CB	THR	221	10.391	36.988	-3.362	1.00	6.78
ATOM	1782	OG1	THR	221	11.360	37.970	-2.958	1.00	6.64
ATOM	1783	CG2	THR	221	9.809	36.316	-2.133	1.00	7.54
ATOM	1784	C	THR	221	10.182	34.891	-4.753	1.00	5.05
ATOM	1785	0	THR	221	9.365	35.121	-5.667	1.00	6.03
ATOM	1786	N	VAL	222	10.317	33.704	-4.181	1.00	5.43
MOTA	1787	CA	VAL	222	9.635	32.477	-4.589	1.00	5.29
ATOM	1788	CB	VAL	222	10.610	31.467	-5.188	1.00	5.74
ATOM	1789	CG1	VAL	222	9.950	30.168	-5.590	1.00	6.07
MOTA	1790	CG2	VAL	222	11.389	32.046	-6.358	1.00 1.00	6.22 5.62
MOTA	1791	C	VAL	222	8.867 9.466	31.924	-3.379 -2.465	1.00	5.72
ATOM	1792	0	VAL LEU	222 223	7.572	31.333 32.200	-3.305	1.00	5.40
ATOM	1793	N CA	LEU	223	6.799	32.250	-2.080	1.00	5.71
MOTA MOTA	1794 1795	CB	LEU	223	6.211	33.454	-1.749	1.00	5.73
ATOM	1796	CG	LEU	223	5.245	33.563	-0.576	1.00	5.62
ATOM	1797	CD1	LEU	223	5.992	33.305	0.748	1.00	5.34
ATOM	1798	CD2	LEU	223	4.631	34.983	-0.564	1.00	7.58
ATOM	1799	c	LEU	223	5.672	31.053	-2.119	1.00	5.89
MOTA	1800	0	LEU	223	4.853	31.106	-3.012	1.00	6.54
ATOM	1801	N	TYR	224	5.637	30.185	-1.112	1.00	5.35
MOTA	1802	CA	TYR	224	4.493	29.307	-0.858	1.00	5.93
MOTA	1803	CB	TYR	224	4.891	27.865	-0.543	1.00	7.37
MOTA	1804	CG	TYR	224	3.696	27.082	-0.030	1.00	8.60
MOTA	1805	CD1	TYR	224	2.805	26.474	-0.888	1.00	10.86
MOTA	1806	CE1	TYR	224	1.698	25.762	-0.350	1.00 1.00	11.92
MOTA	1807	CD2	TYR	224	3.459 2.363	26.927 26.334	1.341 1.897	1.00	10.88 12.37
ATOM	1808	CE2	TYR TYR	224 224	1.500	25.717	1.012	1.00	12.52
ATOM	1809	CZ	TYR	224	0.388	25.081	1.575	1.00	16.93
ATOM	1810	OH C	TYR	224	3.702	29.956	0.284	1.00	5.19
ATOM ATOM	1811 1812	0	TYR	224	4.318	30.259	1.319	1.00	6.49
ATOM	1812	И	GLN	225	2.391	29.993	0.209	1.00	5.70
ATOM	1814	CA	GLN	225	1.552	30.327	1.336	1.00	6.51
ATOM.	1815	CB	GLN	225	1.053	31.753	1.362	1.00	8.15
ATOM	1816	CG	GLN	225	2.113	32.840	1.196	1.00	8.18
ATOM	1817	CD	GLN	225	1.591	34.205	1.582	1.00	8.60
ATOM	1818	OE1	GLN	225	2.147	34.911	2.439	1.00	11.27
ATOM	1819	NE2	GLN	225	0.536	34.580	0.927	1.00	9.01
MOTA	1820	С	GLN	225	0.332	29.411	1.366	1.00	7.75
MOTA	1821	0	GLN	225	-0.163	28.937	0.352	1.00	8.52



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ATOM	1822	И	SER	226	-0.198	29.227	2.575	1.00	9.34
MOTA	1823	CA	SER	226	-1.464	28.544	2.758	1.00	10.96
ATOM	1824	CB	SER	226	-2.003	28.665	4.164	1.00	16.30
	1825	oG	SER	226	-1.115	28.419	5.120	1.00	15.06
MOTA		c	SER	226	-2.559	29.310	2.014	1.00	10.35
ATOM	1826	0	SER	226	-2.481	30.484	1.699	1.00	11.80
MOTA	1827			227	-3.684	28.605	1.934	1.00	10.66
ATOM	1828	N	ASN		-4.840	29.105	1.234	1.00	11.50
MOTA	1829	CA	ASN	227		27.953	0.769	1.00	15.38
MOTA	1830	CB	ASN	227	-5.725		-0.576	1.00	22.10
ATOM	1831	CG	ASN	227	-6.303	28.312		1.00	35.45
MOTA	1832	OD1	ASN	227	-6.033	27.643	-1.583		
MOTA	1833	ND2	ASN	227	-6.869	29.471	-0.713	1.00	20.67
MOTA	1834	С	ASN	227	-5.668	30.072	2.070	1.00	12.61
MOTA	1835	0	ASN	227	-6.857	29.812	2.296	1.00	15.01
MCTA	1836	N	VAL	228	-5.078	31.162	2.514	1.00	10.77
MOTA	1837	CA	VAL	228	-5.746	32.223	3.268	1.00	9.90
ATOM	1838	CB	VAL	228	-5.417	32.224	4.768	1.00	11.72
ATOM	1839	CG1	VAL	228	-6.173	33.357	5.454	1.00	14.80
	1840	CG2	VAL	228	-5.721	30.872	5.403	1.00	14.80
MOTA		C	VAL	228	-5.284	33.531	2.644	1.00	9.82
MOTA	1841		VAL	228	-4.093	33.821	2.657	1.00	10.96
ATOM	1842	0		229	-6.185	34.288	2.031	1.00	9.94
MOTA	1843	N	GLN		-5.815	35.512	1.345	1.00	9.11
MOTA	1844	CA	GLN	229		36.050	0.595	1.00	10.74
MOTA	1845	CB	GLN	229	-7.038		-0.481	1.00	10.34
ATOM	1846	CG	GLN	229	-6.750	37.084		1.00	11.49
MOTA	1847	CD	GLN	229	-6.454	38.479	0.038		12.74
MOTA	1848	OE1	GLN	229	-7.057	38.953	1.011	1.00	
MOTA	1849	NE2	GLN	229	-5.440	39.124	-0.556	1.00	10.77
ATOM	1850	С	GLN	229	-5.228	36.489	2.340	1.00	9.22
ATOM	1851	0	GLN	229	-5.784	36.712	3.421	1.00	10.98
ATOM	1852	N	ASN	230	-4.133	37.140	1.924	1.00	8.54
MOTA	1853	CA	ASN	230	-3.504	38.106	2.839	1.00	9.75
	1854	CB	ASN	230	-2.642	37.356	3.865	1.00	10.52
ATCM	1855	CG	ASN	230	-1.468	36.649	3.229	1.00	11.42
MOTA		OD1	ASN	230	-1.601	35.602	2.559	1.00	12.95
ATCM	1856			230	-0.321	37.258	3.367	1.00	10.36
ATOM	1857	ND2	ASN	230	-2.684	39.177	2.186	1.00	9.22
ATOM	1858	C	ASN		-2.579	40.278	2.699	1.00	10.88
ATCM	1859	0	ASN	230	-2.080	38.928	1.008	1.00	8.35
ATOM	1860	N	LEU	231		39.891	0.391	1.00	7.65
MOTA	1861	CA	LEU	231	-1.187	39.130	-0.486	1.00	9.10
ATOM.	1862	CB	LEU	231	-0.166	38.294	0.253	1.00	10.43
MOTA	1863	CG	LEU	231	0.859	37.494	-0.719	1.00	12.85
MOTA	1864	CD1	LEU	231	1.718		1.167	1.00	18.74
MOTA	1865	CD2	LEU	231	1.707	39.142		1.00	7.60
MOTA	1866	С	LEU	231	-1.921	40.933	-0.444		8.69
ATOM	1867	0	LEU	231	-2.902	40.618	-1.110	1.00	7.25
MOTA	1868	N	GLN	232	-1.378	42.167	-0.446	1.00	
MOTA	1869	CA	GLN	232	-1.884	43.212	-1.298	1.00	7.79
ATOM	1870	CВ	GLN	232	-2.611	44.274	-0.523	1.00	8.77
ATOM	1871	CG	GLN	232	-3.852	43.777	0.218	1.00	8.38
ATOM	1872	CD	GLN	232	-4.616	44.915	0.825	1.00	10.24
ATOM	1873	OE1	GLN	232	-4.059	45.793	1.487	1.00	11.66
ATOM	1874	NE2	GLN	232	-5.935	44.904	0.648	1.00	14.46
	1875	c	GLN	232	-0.682	43.819	-2.003	1.00	6.81
MOTA		0	GLN	232	0.375	43.965	-1.390	1.00	7.95
MOTA	1876		VAL	233	-0.905	44.246	-3.244	1.00	7.92
MOTA	1877	N		233	0.087	44.893	-4.061	1.00	8.46
MOTA	1878	CA	VAL			44.130	-5.339	1.00	9.34
MOTA	1879	CB	VAL	233	0.462	43.775	-6.224	1.00	10.46
ATOM	1880	CG1	VAL	233	-0.719		-6.141	1.00	9.44
MOTA	1881	CG2	VAL	233	1.534	44.837		1.00	8.77
ATOM	1882	С	VAL	233	-0.381	46.307	-4.399		10.72
ATOM	1883	0	VAL	233	-1.556	46.486	-4.737	1.00	
MOTA	1884	N	GLU	234	0.489	47.302	-4.314	1.00	8.62
MOTA	1885	CA	GLU	234	0.169	48.654	-4.763	1.00	10.41
MOTA	1886	CB	GLU	234	1.095	49.693	-4.115	1.00	11.08
ATOM	1887	CG	GLU	234	0.638	51.126	-4.319	1.00	12.76
ATOM	1888	CD	GLU	234	1.488	52.093	-3.531	1.00	13.73
ATOM	1889	OEl	GLU	234	2.730	51.975	-3.567	1.00	16.36
	1890	OE2	GLU	234	0.903	53.025	-2.925	1.00	16.64
ATOM		C	GLU	234	0.277	48.736	-6.285	1.00	12.14
ATOM	1891	0	GLU	234	1.295	48.366	-6.885	1.00	13.51
MOTA	1892	N	THR	235	-0.753	49.285	-6.917	1.00	15.59
MOTA	1893		THR	235	-0.699	49.507	-8.364	1.00	17.29
ATOM	1894	CA	LIIK	233	4.000				

2004	1895	СВ	THR	235	-1.595	48.591	-9.200	1.00	19.13
MOTA MOTA	1896	OG1	THR	235	-2.984	48.842	-8.938	1.00	21.58
ATOM	1897	CG2	THR	235	-1.375	47.100	-8.952	1.00	22.36
MOTA	1898	С	THR	235	-1.137	50.959	-8.576	1.00	18.85 19.19
ATOM	1899	0	THR	235	-1.394	51.656	-7.579	1.00 1.00	22.89
ATOM	1900	N	ALA	236	-1.293	51.330	-9.856 -10.222	1.00	23.88
ATOM	1901	CA	ALA	236	-1.784	52.664	-10.222	1.00	31.13
ATOM	1902	CB	ALA	236	-1.749	52.884	-9.731	1.00	24.49
ATOM	1903	С	ALA	236	-3.206	52.889 53.962	-9.427	1.00	31.36
MOTA	1904	О	ALA	236	-3.723	51.774	-9.619	1.00	24.56
ATOM	1905	N	ALA	237	-3.929 -5.299	51.889	-9.150	1.00	25.87
MOTA	1906	CA	ALA	237 237	-6.155	50.804	-9.815	1.00	33.93
ATOM	1907	CB	ALA ALA	237	-5.332	51.715	-7.648	1.00	24.45
MOTA	1908	C	ALA	237	-6.424	51.484	-7.120	1.00	30.47
ATOM	1909	O N	GLY	238	-4.223	51.758	-6.932	1.00	21.71
MOTA	1910	CA	GLY	238	-4.269	51.563	-5.481	1.00	19.83
MOTA	1911 1912	C	GLY	238	-3.842	50.185	-5.013	1.00	17.46
ATOM	1913	o	GLY	239	-3.387	49.372	-5.837	1.00	17.96
ATOM ATOM	1914	N	TYR	239	-4.061	49.844	-3.728	1.00	15.86
ATOM	1915	CA	TYR	239	-3.721	48.501	-3.275	1.00	12.97
MOTA	1915	СВ	TYR	239	-3.579	48.458	-1.743	1.00	12.30
ATOM	1917	CG	TYR	239	-2.235	48.936	-1.252	1.00	11.99
MOTA	1918	CD1	TYR	239	-2.034	50.267	-0.939	1.00	12.25
ATOM	1919	CE1	TYR	239	-0.787	50.701	-0.501	1.00	12.55
ATOM	1920	CD2	TYR	239	-1.161	48.056	-1.168	1.00	11.54
MOTA	1921	CE2	TYR	239	0.072	48.470	-0.746	1.00	11.38
ATOM	1922	CZ	TYR	239	0.238	49.811	-0.426	1.00 1.00	11.23 14.40
ATOM	1923	OH	TYR	239	1.484	50.235	-0.015	1.00	12.53
MOTA	1924	С	TYR	239	-4.815	47.516	-3.705	1.00	17.24
MOTA	1925	0	TYR	239	-6.007	47.800	-3.513 -4.296	1.00	11.52
MOTA	1926	N	GLN	240	-4.409	46.398	-4.769	1.00	11.73
MOTA	1927	CA	GLN	240	-5.297	45.349 45.199	-6.306	1.00	11.64
MOTA	1928	CB	GLN	240	-5.117 -5.539	46.485	-7.051	1.00	14.46
MOTA	1929	CG	GLN	240 240	-5.418	46.379	-8.546	1.00	15.53
ATOM	1930	CD	GLN	240	-4.585	45.635	-9.069	1.00	18.79
MOTA	1931	OE1	GLN GLN	240	-6.217	47.136	-9.296	1.00	21.51
MOTA	1932	NE2 C	GLN	240	-4.935	44.026	-4.113	1.00	10.88
ATOM	1933	0	GLN	240	-3.763	43.770	-3.789	1.00	9.92
ATOM	1934 1935	N	ASP	241	-5.922	43.182	-3.859	1.00	10.67
MOTA MOTA	1936	CA	ASP	241	-5.711	41.915	-3.230	1.00	9.82
ATOM	1937	СВ	ASP	241	-7.072	41.409	-2.727	1.00	11.01
ATOM	1938	CG	ASP	241	-7.532	41.987	-1.420	1.00	12.59
ATOM	1939	001	ASP	241	-B.763	41.911	-1.141	1.00	15.81
ATCM	1940	002	ASP	241	-6.719	42.478	-0.648	1.00	12.84 10.03
ATOM	1941	С	ASP	241	-5.124	40.876	-4.183	1.00 1.00	13.99
ATOM	1942	0	ASP	241	-5.613	40.615	-5.276	1.00	8.45
ATOM	1943	N	ILE	242	-4.082	40.170	-3.742	1.00	8.44
MOTA	1944	CA	ILE	242	-3.524	39.035	-4.454 -4.197	1.00	8.68
MOTA	1945	CB	ILE	242	-2.024	38.896	-4.760	1.00	10.88
MOTA	1946	CG2	ILE	242	-1.499	37.564 40.096	-4.766	1.00	9.70
ATOM	1947	CG1	ILE	242	-1.271 0.191	40.223	-4.344	1.00	11.78
MOTA	1948	CD1	ILE	242	-4.242	37.784	-3.942	1.00	8.96
ATOM	1949	C	ILE	242	-4.216	37.474	-2.740	1.00	9.65
MOTA	1950	0	ILE	242 243	-4.926	37.054	-4.821	1.00	9.75
MOTA	1951	N	ALA	243	-5.595	35.814	-4.414	1.00	9.73
MOTA	1952	CA	ALA ALA	243	-4.574	34.776	-3.950	1.00	8.94
ATOM	1953	c	ALA	243	-3.463	34.685	-4.478	1.00	11.10
ATOM	1954	0	ALA	243	-6.379	35.243	-5.605	1.00	14.74
ATOM	1955	CB	ALA	244	-4.991	33.948	-2.985	1.00	9.36
MOTA	1956	N	ALA	244	-4.136	32.844	-2.547	1.00	9.36
MOTA	1957	CA CB	ALA	244	-4.588	32.409	-1.156	1.00	13.93
ATOM	1958	C	ALA	244	-4.243	31.707	-3.540	1.00	10.49
ATOM	1959	0	ALA	244	-5.263	31.547	-4.224	1.00	13.13
ATOM	1960	И	ASP	245	-3.215	30.899	-3.615	1.00	10.92
ATOM	1961 1962	CA	ASP	245	-3.158	29.661	-4.408	1.00	11.37
ATOM	1962	CB	ASP	245	-2.804	29.876	-5.858	1.00	11.89
MOTA	1964	CG	ASP	245	-2.892	28.664	-6.747	1.00	13.54
MOTA MOTA	1965	OD1		245	-3.031	28.761	-7.996	1.00	18.77
ATOM	1966	OD2	ASP	245	-2.886	27.549	-6.197	1.00	13.74
MOTA	1967	c	ASP	245	-2.109	28.779	-3.720	1.00	10.46

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ATOM 1995 CE2 TYR 249 7.367 26.135 -3.715 1.00 6.33 ATOM 1997 OR TYR 249 7.367 26.135 -3.715 1.00 6.33 ATOM 1999 OR TYR 249 7.263 25.130 -2.903 1.00 5.67 ATOM 1999 O TYR 249 4.126 31.046 -6.523 1.00 5.67 ATOM 2000 N LEU 250 4.045 31.976 -5.592 1.00 5.56 ATOM 2001 CA LEU 250 3.894 33.381 -5.926 1.00 5.56 ATOM 2002 CB LEU 250 3.894 33.381 -5.926 1.00 6.61 ATOM 2003 CG LZU 250 2.830 35.587 -5.134 1.00 6.74 ATOM 2004 CD1 LEU 250 1.810 35.727 -6.251 1.00 7.40 ATOM 2005 CD2 LEU 250 2.316 36.240 -3.857 1.00 8.54 ATOM 2006 C LEU 250 5.283 33.945 -6.147 1.00 5.864 ATOM 2006 C LEU 250 5.283 33.945 -6.147 1.00 5.891 ATOM 2007 O LEU 250 5.283 33.945 -7.727 1.00 6.03 ATOM 2009 CA ILE 251 5.498 34.540 -7.312 1.00 5.491 ATOM 2009 CA ILE 251 5.498 34.540 -7.312 1.00 5.494 ATOM 2010 CB ILE 251 7.240 34.434 -9.059 1.00 6.03 ATOM 2010 CB ILE 251 7.240 34.434 -9.059 1.00 6.03 ATOM 2011 CC2 ILE 251 8.728 34.801 -9.306 1.00 7.861 ATOM 2011 CC2 ILE 251 6.975 32.941 -9.095 1.00 6.01 ATOM 2013 CD1 ILE 251 6.767 32.941 -9.095 1.00 6.167 ATOM 2014 C ILE 251 6.767 32.941 -9.095 1.00 6.167 ATOM 2015 CG ILE 251 7.667 32.110 -8.038 1.00 6.61 ATOM 2016 N ASN 252 7.760 37.291 -7.443 1.00 6.76 ATOM 2017 CA ASN 252 7.760 37.291 -7.443 1.00 6.12 ATOM 2018 CB ASN 252 7.166 38.626 -4.587 1.00 6.20 ATOM 2019 CG ASN 252 7.166 38.626 -4.587 1.00 6.42 ATOM 2019 CG ASN 252 7.166 38.626 -4.587 1.00 6.42 ATOM 2020 CD ASN 252 9.377 39.065 -7.731 1.00 6.43 ATOM 2020 CG SER 253 11.302 40.881 -11.077 1.00 6.43 ATOM 2020 CG SER 253 11.303 41.552 -6.988 1.00 7.66 ATOM 2020 CG SER 255 11.303 41.552 -6.988 1.00 7.36 ATOM 2021 CG GS CYS 253 11.303 41.552 -6.988 1.00 7.66 ATOM 2021 CG SER 255 15.785 46.124 -3.385 1.00 7.76 ATOM 2021 CG SER 255 15.785 46.124 -3.385 1.00 6.66 ATOM 2023 O ASN 252 10.197 38.345 -7.731 1.00 6.36 ATOM 2020 CG SER 255 16.716 46.348 40.768 -8.255 1.00 7.00 ATOM 2021 CG GS CYS 253 11.302 40.881 -11.077 1.00 10.3 ATOM 2023 O ASN 252 10.197 38.345 -7.731 1.00 6.40 ATOM 2020 CG SER 255 16.716 46.348 -6.979 1.00 7.76 ATOM 2031 O GS CYS 253 11.3						- 100	. •			
ATOM 1970 CA ASP 246 -1.677 26.921 -2.905 1.00 9.06 ATOM 1971 CB ASP 246 -1.677 26.921 -2.197 1.00 9.06 ATOM 1972 CG ASP 246 -1.677 26.921 -2.197 1.00 9.06 ATOM 1973 CG ASP 246 -1.378 28.489 -0.855 1.00 11.32 ATOM 1974 OD2 ASP 246 -1.378 28.489 -0.855 1.00 11.32 ATOM 1974 OD2 ASP 246 -1.378 28.489 -0.10 10.00 11.32 ATOM 1975 C ASP 246 -1.378 28.489 -0.10 10.00 11.32 ATOM 1976 C ASP 246 -1.378 28.489 -0.10 10.00 11.32 ATOM 1977 C ASP 246 -1.071 25.755 -1.060 1.00 9.76 ATOM 1978 C ASP 246 -1.071 25.755 -1.060 1.00 9.76 ATOM 1978 C ASP 246 -1.201 25.755 -1.060 1.00 9.76 ATOM 1979 C ASP 246 -1.201 25.755 -1.060 1.00 9.77 ATOM 1979 C ASP 246 -1.201 25.755 -1.060 1.00 9.77 ATOM 1979 C ASP 246 -1.201 25.755 -1.060 1.00 9.77 ATOM 1979 C ASP 246 -1.201 25.755 -1.060 1.00 9.77 ATOM 1980 OC1 THR 247 -1.415 25.840 -4.379 1.00 9.65 ATOM 1981 CC2 THR 247 -1.845 24.275 -6.269 1.00 11.20 ATOM 1981 CC2 THR 247 -1.294 21.201 -6.269 1.00 11.20 ATOM 1983 O THR 247 -1.294 21.401 -6.698 1.00 1.11.30 ATOM 1983 O THR 247 -1.028 25.440 -6.698 1.00 11.70 ATOM 1984 C C THR 247 1.028 25.440 -6.698 1.00 11.70 ATOM 1985 C C THR 247 1.028 25.440 -6.698 1.00 11.70 ATOM 1988 N GULV 248 2.475 27.454 -6.692 1.00 -0.863 ATOM 1985 C G TYR 249 4.475 27.454 -6.692 1.00 C 7.49 ATOM 1988 N TYR 249 1.467 27.454 -6.698 1.00 8.63 ATOM 1988 N TYR 249 1.467 27.454 -6.608 1.00 6.51 ATOM 1988 N TYR 249 1.467 29.616 -6.008 1.00 6.51 ATOM 1991 CG TYR 249 6.411 28.129 -5.526 1.00 6.51 ATOM 1992 CT TYR 249 6.411 28.129 -5.526 1.00 6.53 ATOM 1993 CC TYR 249 6.411 28.129 -5.526 1.00 6.62 ATOM 1999 CB TYR 249 5.900 29.244 -6.608 1.00 6.53 ATOM 1999 CB TYR 249 5.900 29.244 -6.608 1.00 6.53 ATOM 1999 CB TYR 249 5.900 29.244 -6.608 1.00 6.53 ATOM 1999 C TYR 249 6.411 28.129 -5.526 1.00 6.62 ATOM 1999 CB TYR 249 5.900 29.244 -6.608 1.00 6.63 ATOM 1999 CB TYR 249 5.900 29.244 -6.608 1.00 6.63 ATOM 1999 CB TYR 249 5.900 29.244 -6.608 1.00 6.60 ATOM 2000 N LEU 250 6.157 33.375 -5.275 1.00 6.62 ATOM 2001 CB LEU 250 6.157 33.3945 -5.905 1.00 6.62 ATOM 2002 CB LEU 250 6.157	» TOM	1069	0	ASP	245	-0.917	28.912	-3.998		
NTOM										
ATOM 1972 CG ASP 246 -3.738 28.499 -0.831 1.00 11.92 ATOM 1973 OD1 ASP 246 -1.378 28.499 -0.831 1.00 11.92 ATOM 1974 OD2 ASP 246 -1.878 25.493 -0.018 1.00 11.92 ATOM 1975 C ASP 246 -1.878 25.393 -0.018 1.00 18.85 ATOM 1976 O ASP 246 -1.870 25.395 -0.018 1.00 18.85 ATOM 1977 N ATOM 1979 N ATOM 1979 N ATOM 1979 N ATOM 1979 N ATOM 1980 OCI. THR 247 -0.834 24.295 -5.261 1.00 9.37 ATOM 1980 OCI. THR 247 -1.845 25.290 -7.212 1.00 11.39 ATOM 1991 CG THR 247 1.028 25.400 -5.524 1.00 11.39 ATOM 1992 C THR 247 1.028 25.442 -6.558 1.00 11.39 ATOM 1993 O THR 247 1.028 25.442 -6.558 1.00 11.39 ATOM 1984 N GLY 248 0.477 26.744 -6.088 1.00 11.39 ATOM 1985 CA GLY 248 1.475 27.454 -6.088 1.00 1.0.8 8.75 ATOM 1986 C GLY 248 1.475 27.454 -6.088 1.00 1.0.66 ATOM 1988 N THR 249 1.074 29.044 -6.080 1.00 1.0.66 ATOM 1988 N THR 249 1.074 29.94 1.074 29.546 -4.757 1.00 1.0.66 ATOM 1988 O THR 249 1.074 29.94 1.074 29.546 -4.757 1.00 1.0.66 ATOM 1988 O THR 249 1.074 29.94 1.074 29.745 1.00 1.0.66 ATOM 1989 O THR 249 1.074 29.94 1.00 1.0.66 ATOM 1989 O THR 249 1.075 29.244 1.00 1.00 1.0.66 ATOM 1989 O THR 249 1.075 29.244 1.00 1.00 1.0.66 ATOM 1988 O THR 249 1.075 29.244 1.00 1.00 1.0.66 ATOM 1989 O THR 249 1.075 29.244 1.00 1.00 1.0.66 ATOM 1989 O THR 249 1.075 29.244 1.00 1.00 1.0.66 ATOM 1989 O THR 249 1.075 29.244 1.00 1.00 1.0.66 ATOM 1999 O THR 249 1.075 29.244 1.00 1.00 1.0.66 ATOM 1999 O THR 249 1.075 29.244 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.				ASP						
ATOM 1972 CG ABP 246 3.134 24.958 0.018 1.00 15.40 ATOM 1973 OD2 ABP 246 -1.870 25.292 -2.155 1.00 11.87 ATOM 1974 OD2 ABP 246 -1.870 25.292 -2.155 1.00 11.87 ATOM 1976 CB ABP 246 -0.571 25.755 -3.0600 1.00 9.71 ATOM 1977 N THR 247 -1.417 25.840 -4.1379 1.00 9.46 ATOM 1978 CR THR 247 -0.834 24.865 -5.261 1.00 9.46 ATOM 1979 CB THR 247 -1.845 24.875 -5.261 1.00 9.46 ATOM 1990 OD1 THR 247 -1.945 24.865 -5.261 1.00 9.46 ATOM 1990 OD1 THR 247 -1.945 24.865 -5.261 1.00 9.37 ATOM 1991 CC2 THR 247 -1.994 23.800 -5.243 1.00 12.30 ATOM 1992 C THR 247 -1.994 23.800 -5.243 1.00 12.30 ATOM 1993 O THE 247 1.022 23.800 -5.643 1.00 12.30 ATOM 1993 O THE 247 1.022 24.40 -6.088 1.00 12.30 ATOM 1994 N OILY 248 1.475 -2.75 -6.663 1.00 8.16 ATOM 1995 CC OULY 248 2.494 28.172 -5.992 1.00 8.36 ATOM 1985 C OULY 248 2.273 28.246 -4.757 1.00 10.68 ATOM 1998 O OULY 248 2.273 28.246 -4.757 1.00 10.68 ATOM 1999 CB TTR 249 6.417 29.616 -6.005 1.00 6.77 ATOM 1999 CB TTR 249 6.417 29.616 -6.005 1.00 6.77 ATOM 1999 CB TTR 249 6.417 29.616 -6.005 1.00 6.77 ATOM 1999 CB TTR 249 6.417 29.616 -6.005 1.00 6.77 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.67 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1999 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1990 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1990 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1990 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1990 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1990 CB TTR 249 6.411 28.129 -5.422 1.00 6.62 ATOM 1990 CB TTR 249 6.418 28.129 -5.422 1.00 6.62 ATOM 1990 CB TTR 249 6.411 28.129 -5.	MOTA	1971								
ATOM 1974 002 ASP 246 3.370 25.392 2.2.155 1.00 14.85 ATOM 1975 C ASP 246 -1.201 25.755 -1.060 1.00 9.37 ATOM 1978 C ASP 246 -1.201 25.755 -1.060 1.00 9.37 ATOM 1978 C ASP 246 -1.201 25.755 -1.060 1.00 9.37 ATOM 1978 C AT THE 247 -1.417 25.840 -4.379 1.00 9.46 ATOM 1978 C AT THE 247 -1.417 25.840 -4.379 1.00 9.46 ATOM 1978 C AT THE 247 -1.417 25.840 -4.379 1.00 9.37 ATOM 1989 C THR 247 -1.246 24.275 -6.269 1.00 11.39 ATOM 1980 001 THR 247 -1.246 24.275 -6.269 1.00 11.39 ATOM 1981 C C THR 247 -1.3094 25.442 -6.5561 1.00 11.39 ATOM 1982 C THR 247 1.028 25.442 -6.5561 1.00 11.39 ATOM 1983 O THR 247 1.028 25.442 -6.5651 1.00 11.39 ATOM 1984 N GLY 248 0.477 26.744 -6.638 1.00 21.276 ATOM 1985 C GLY 248 1.475 26.744 -6.638 1.00 8.53 ATOM 1986 C GLY 248 1.475 26.744 -6.638 1.00 6.36 ATOM 1987 O GLY 248 2.459 26.733 -6.663 1.00 6.51 ATOM 1988 N TTR 249 1.446 28.735 -6.653 1.00 6.53 ATOM 1988 N TTR 249 5.900 29.244 -6.505 1.00 10.66 ATOM 1989 O TR 249 5.900 29.244 -6.005 1.00 6.51 ATOM 1989 C TTR 249 5.900 29.244 -6.005 1.00 6.51 ATOM 1989 C TTR 249 6.314 28.246 -6.005 1.00 6.51 ATOM 1989 C TTR 249 6.314 28.246 -6.005 1.00 6.51 ATOM 1989 C TTR 249 6.314 28.246 -6.005 1.00 6.51 ATOM 1989 C TTR 249 6.314 28.246 -6.005 1.00 6.51 ATOM 1999 C TTR 249 6.314 28.246 -6.005 1.00 6.53 ATOM 1999 C TTR 249 6.314 28.246 -6.005 1.00 6.53 ATOM 1999 C TTR 249 6.314 28.246 -6.005 1.00 6.53 ATOM 1999 C TTR 249 6.314 28.246 -6.005 1.00 6.53 ATOM 1999 C TTR 249 7.367 6.365 28.437 -4.299 1.00 7.144 ATOM 1999 C TTR 249 7.367 6.365 28.437 -4.299 1.00 5.67 ATOM 1999 C TTR 249 7.367 6.365 28.437 -4.299 1.00 6.20 ATOM 1999 C TTR 249 7.367 6.365 28.437 -4.299 1.00 6.20 ATOM 1999 C TTR 249 7.367 6.365 28.437 -4.299 1.00 6.20 ATOM 1999 C TTR 249 7.367 6.365 1.00 6.60 ATOM 2000 N LEE 250 5.283 33.945 -6.147 1.00 6.60 ATOM 2000 N LEE 250 5.283 33.945 -6.147 1.00 5.66 ATOM 2000 C LEU 250 5.283 33.945 -6.147 1.00 6.60 ATOM 2000 C LEU 250 5.283 33.945 -6.147 1.00 6.60 ATOM 2000 C LEU 250 5.283 33.945 -6.147 1.00 6.60 ATOM 2000 C LEU 250 5.283 33.945 -6.	MOTA	1972								
ATOM 1976 C ASP 246 -1.201 25.755 -3.060 1.00 9.71 ATOM 1976 O ASP 246 -0.571 24.838 -2.544 1.00 10.59 ATOM 1976 O ASP 246 -0.571 24.838 -2.544 1.00 10.59 ATOM 1976 O ASP 247 -0.334 24.865 -5.261 1.00 9.46 ATOM 1979 CB THR 247 -1.417 25.840 -4.379 1.00 9.46 ATOM 1979 CB THR 247 -1.845 24.275 -6.269 1.00 11.29 ATOM 1980 CG THR 247 -2.325 25.290 -7.212 1.00 11.39 ATOM 1981 CG2 THR 247 -1.845 24.275 -6.269 1.00 11.29 ATOM 1981 CG2 THR 247 -1.904 23.800 -5.534 1.00 8.75 ATOM 1983 O THR 247 0.328 25.426 -6.058 1.00 8.75 ATOM 1983 O THR 247 0.328 25.420 -6.058 1.00 8.75 ATOM 1984 N GLY 248 0.477 26.744 -6.088 1.00 8.75 ATOM 1985 CA GLY 248 1.475 27.454 -6.088 1.00 8.62 ATOM 1986 C GLY 248 2.494 20.172 -9.922 1.00 7.43 ATOM 1986 C GLY 248 2.494 20.172 -9.922 1.00 7.43 ATOM 1986 C GLY 248 2.494 20.172 -9.922 1.00 7.43 ATOM 1988 N TYR 249 3.495 29.8131 -6.605 1.00 6.51 ATOM 1990 CB TTR 249 6.411 28.129 -5.426 1.00 6.26 ATOM 1990 CB TTR 249 6.411 28.129 -5.426 1.00 6.73 ATOM 1991 CG TTR 249 6.411 28.129 -5.426 1.00 6.00 ATOM 1992 CT TTR 249 6.411 28.129 -5.426 1.00 6.20 ATOM 1992 CT TTR 249 6.411 28.129 -5.426 1.00 6.20 ATOM 1995 CT TTR 249 6.411 28.129 -5.426 1.00 6.20 ATOM 1995 CT TTR 249 6.411 28.129 -5.426 1.00 6.20 ATOM 1995 CT TTR 249 6.413 28.129 -5.426 1.00 6.20 ATOM 1996 CT TTR 249 6.413 28.129 -5.426 1.00 6.20 ATOM 1997 ON TTR 249 6.413 28.129 -5.426 1.00 6.20 ATOM 1998 C TTR 249 6.431 28.129 -5.426 1.00 6.20 ATOM 1999 C TTR 249 6.431 28.129 -5.426 1.00 6.20 ATOM 1999 C TTR 249 6.431 28.129 -5.426 1.00 6.20 ATOM 1999 C TTR 249 6.431 28.129 -5.426 1.00 6.20 ATOM 1999 C TTR 249 6.431 28.129 -5.426 1.00 6.20 ATOM 1999 C TTR 249 6.405 31.394 -3.395 1.00 6.20 ATOM 1999 C TTR 249 6.405 31.396 -5.552 1.00 6.523 ATOM 2000 N LEU 250 6.413 33.391 -5.952 1.00 6.523 ATOM 2001 CA LEU 250 6.413 33.391 -5.952 1.00 6.523 ATOM 2002 CB LEU 250 3.834 33.391 -5.952 1.00 6.20 ATOM 2003 CG LEU 250 3.834 33.391 -5.952 1.00 6.20 ATOM 2003 CG LEU 250 3.313 34.139 -5.952 1.00 6.20 ATOM 2004 CD LEU 251 5.489 34.590 -7.909 1.00 6.00 ATOM										
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ATOM 1993 CE1 TIR 249 6.992 28.437 -4.199 1.00 5.54 ATOM 1995 CE2 TYR 249 7.470 27.450 -3.364 1.00 5.23 ATOM 1995 CE2 TYR 249 7.367 26.135 -3.715 1.00 6.33 ATOM 1997 OH TYR 249 7.873 25.130 -2.903 1.00 8.55 ATOM 1999 O TYR 249 4.126 31.046 -6.523 1.00 5.67 ATOM 1999 O TYR 249 4.126 31.046 -6.523 1.00 5.67 ATOM 1999 O TYR 249 4.146 31.252 -7.740 1.00 5.36 ATOM 2000 N LEU 250 4.045 31.976 -5.592 1.00 5.36 ATOM 2001 CA LEU 250 3.894 33.381 -5.926 1.00 5.35 ATOM 2002 CB LEU 250 3.894 33.381 -5.926 1.00 5.35 ATOM 2003 GG LEU 250 3.894 33.381 -5.926 1.00 6.83 ATOM 2004 CD1 LEU 250 1.810 35.727 -6.251 1.00 7.40 ATOM 2005 CD LEU 250 2.830 35.587 -5.134 1.00 6.78 ATOM 2006 C LEU 250 5.283 33.945 -6.157 ATOM 2006 CD LEU 250 5.283 33.945 -6.171 1.00 5.86 ATOM 2007 O LEU 250 5.283 33.945 -6.171 1.00 5.86 ATOM 2008 N ILE 251 5.498 34.540 -7.312 1.00 5.45 ATOM 2009 CA LEU 251 5.498 34.540 -7.312 1.00 5.45 ATOM 2010 CB ILE 251 6.777 35.088 -7.727 1.00 6.03 ATOM 2010 CB ILE 251 7.240 34.434 -9.059 1.00 6.03 ATOM 2011 CG2 ILE 251 6.775 32.101 -9.095 1.00 6.01 ATOM 2012 CG1 ILE 251 6.757 32.110 -9.095 1.00 6.06 ATOM 2013 CD1 ILE 251 6.765 32.941 -9.095 1.00 6.06 ATOM 2014 C ILE 251 6.765 32.110 -9.095 1.00 6.66 ATOM 2015 O ILE 251 6.776 37.111 -8.038 1.00 6.66 ATOM 2016 C ASN 252 7.862 38.703 -7.443 1.00 6.78 ATOM 2017 CA ASN 252 7.862 38.703 -7.443 1.00 6.76 ATOM 2018 CB ASN 252 7.667 39.511 -5.306 1.00 7.66 ATOM 2019 CG ASN 252 7.667 39.521 -5.306 1.00 6.66 ATOM 2019 CG ASN 252 7.667 39.521 -5.306 1.00 6.67 ATOM 2017 CA ASN 252 7.862 38.703 -7.696 1.00 6.06 ATOM 2019 CG ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2020 CD1 ASN 252 7.667 39.635 -7.737 1.00 6.93 ATOM 2020 CG ASN 252 7.667 39.635 -7.737 1.00 6.30 ATOM 2021 CG ASN 252 7.667 39.635 -7.737 1.00 6.76 ATOM 2021 CG ASN 252 7.667 39.635 -7.737 1.00 6.76 ATOM 2020 CG ASN 252 10.197 38.345 -7.117 1.00 7.66 ATOM 2020 CG ASN 252 10.197 38.455 -7.317 1.00 7.66 ATOM 2020 CG ASN 252 10.197 38.455 -7.317 1.00 7.66 ATOM 2020 CG ASN 252 10.197 38.455 -7.317 1.00 7.66 ATOM 2020 CG A	MOTA									
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ATOM 1995 CZ TYR 249 7.367 26.135 -3.715 1.00 6.33 ATOM 1997 OH TYR 249 4.202 31.046 -6.523 1.00 5.67 ATOM 1999 O TYR 249 4.202 31.046 -6.523 1.00 5.67 ATOM 1999 O TYR 249 4.202 31.046 -6.523 1.00 5.67 ATOM 1999 O TYR 249 4.146 31.252 -7.740 1.00 6.33 ATOM 2000 N LEU 250 4.045 31.976 -5.592 1.00 5.58 ATOM 2001 CA LEU 250 3.894 33.391 -5.926 1.00 5.35 ATOM 2002 CB LEU 250 3.894 33.391 -5.926 1.00 5.35 ATOM 2003 CG LEU 250 3.894 33.391 -5.926 1.00 6.61 ATOM 2003 CG LEU 250 3.151 34.119 -4.803 1.00 6.61 ATOM 2004 CD1 LEU 250 1.810 35.727 -6.251 1.00 7.40 ATOM 2005 CD2 LEU 250 5.316 36.240 -3.857 1.00 8.54 ATOM 2006 C LEU 250 5.283 33.945 -6.147 1.00 5.86 ATOM 2006 C LEU 250 5.283 33.945 -6.147 1.00 5.86 ATOM 2007 O LEU 250 5.283 34.540 -7.312 1.00 5.45 ATOM 2008 N ILE 251 5.498 34.540 -7.312 1.00 5.45 ATOM 2009 CA ILE 251 5.498 34.540 -7.312 1.00 5.45 ATOM 2010 CB ILE 251 6.777 35.088 -7.727 1.00 6.03 ATOM 2010 CB ILE 251 7.240 34.434 -9.059 1.00 6.01 ATOM 2011 CC2 ILE 251 8.728 34.801 -9.059 1.00 6.01 ATOM 2012 CG1 ILE 251 6.975 32.941 -9.059 1.00 6.01 ATOM 2013 CD1 ILE 251 6.7657 32.100 -9.095 1.00 6.61 ATOM 2015 O ILE 251 6.7657 32.101 -8.038 1.00 6.66 ATOM 2017 CA ASN 252 7.869 38.703 -7.699 1.00 6.10 ATOM 2017 CA ASN 252 7.869 38.703 -7.699 1.00 6.16 ATOM 2018 CB ASN 252 7.667 39.521 -5.306 1.00 6.26 ATOM 2017 CA ASN 252 7.869 38.703 -7.699 1.00 6.16 ATOM 2018 CB ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2020 ODI ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2021 CG ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2020 ODI ASN 252 7.667 39.6521 -5.306 1.00 6.30 ATOM 2021 CG ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2021 CG ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2021 CG ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2021 CG ASN 252 7.667 39.521 -5.306 1.00 6.30 ATOM 2021 CG ASN 252 7.667 39.521 -5.306 1.00 7.66 ATOM 2022 C ASN 253 11.302 41.723 -9.464 1.00 7.30 ATOM 2023 O GSN 252 53 11.303 41.552 -6.988 1.00 7.30 ATOM 2024 N CYS 253 10.402 40.308 -4.902 1.00 7.50 ATOM 2020 N GLY 254 13.850 43.546 -7.269 1.00 7.30 AT								-3.364	1.00	5.23
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ATOM 2021 ND2 ASN 252 9.377 39.065 -7.731 1.00 6.3 ATOM 2022 C ASN 252 10.197 38.345 -7.137 1.00 7.2 ATOM 2023 O ASN 252 10.197 38.345 -7.137 1.00 7.2 ATOM 2024 N CYS 253 9.683 40.236 -8.295 1.00 6.4 ATOM 2025 CA CYS 253 11.048 40.768 -8.285 1.00 7.0 ATOM 2026 CB CYS 253 11.302 41.723 -9.464 1.00 8.8 ATOM 2027 SG CYS 253 11.232 40.881 -11.077 1.00 10.3 ATOM 2028 C CYS 253 11.232 40.881 -11.077 1.00 10.3 ATOM 2028 C CYS 253 10.402 42.203 -6.420 1.00 7.3 ATOM 2029 O CYS 253 10.402 42.203 -6.420 1.00 7.5 ATOM 2030 N GLY 254 12.562 41.539 -6.585 1.00 6.6 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.938 44.380 -5.130 1.00 7.3 ATOM 2036 CB SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.770 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.5										8.45
ATOM 2022 C ASN 252 10.197 38.345 -7.137 1.00 7.2 ATOM 2024 N CYS 253 9.683 40.236 -8.295 1.00 6.4 ATOM 2025 CA CYS 253 11.048 40.768 -8.285 1.00 7.0 ATOM 2026 CB CYS 253 11.302 41.723 -9.464 1.00 8.8 ATOM 2027 SG CYS 253 11.232 40.881 -11.077 1.00 10.3 ATOM 2028 C CYS 253 11.309 41.552 -6.988 1.00 7.3 ATOM 2029 O CYS 253 10.402 42.203 -6.420 1.00 7.5 ATOM 2030 N GLY 254 12.562 41.539 -6.585 1.00 6.6 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.384 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2038 C SER 255 16.710 46.348 -6.979 1.00 10.5									1.00	6.35
ATOM 2024 N CYS 253 9.683 40.236 -8.295 1.00 6.4 ATOM 2025 CA CYS 253 11.048 40.768 -8.285 1.00 7.0 ATOM 2026 CB CYS 253 11.302 41.723 -9.464 1.00 8.8 ATOM 2027 SG CYS 253 11.302 41.723 -9.464 1.00 10.3 ATOM 2028 C CYS 253 11.309 41.552 -6.988 1.00 7.3 ATOM 2028 C CYS 253 10.402 42.203 -6.420 1.00 7.5 ATOM 2029 O CYS 253 10.402 42.203 -6.420 1.00 7.5 ATOM 2030 N GLY 254 12.562 41.539 -6.585 1.00 6.6 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.1 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.1								-7.137		7.21
ATOM 2025 CA CYS 253 11.048 40.768 -8.285 1.00 7.0 ATOM 2026 CB CYS 253 11.302 41.723 -9.464 1.00 8.8 ATOM 2027 SG CYS 253 11.302 41.723 -9.464 1.00 10.3 ATOM 2028 C CYS 253 11.309 41.552 -6.988 1.00 7.3 ATOM 2029 O CYS 253 10.402 42.203 -6.420 1.00 7.5 ATOM 2030 N GLY 254 12.562 41.539 -6.585 1.00 6.6 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.388 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.388 44.380 -5.130 1.00 7.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.770 46.348 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.770 46.348 -6.979 1.00 10.1 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.1							40.236			6.40
ATOM 2026 CB CYS 253 11.302 41.723 -9.464 1.00 8.8 ATOM 2027 SG CYS 253 11.232 40.881 -11.077 1.00 10.3 ATOM 2028 C CYS 253 11.309 41.552 -6.988 1.00 7.3 ATOM 2029 O CYS 253 10.402 42.203 -6.420 1.00 7.5 ATOM 2030 N GLY 254 12.562 41.539 -6.585 1.00 6.6 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.338 44.380 -5.130 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.3 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.5					253	11.048				
ATOM 2027 SG CYS 253 11.232 40.881 -11.077 1.00 2.01					253					
ATOM 2028 C CYS 253 11.309 41.532 -6.500 1.00 7.5 ATOM 2029 O CYS 253 10.402 42.203 -6.420 1.00 7.5 ATOM 2030 N GLY 254 12.562 41.539 -6.585 1.00 6.6 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2033 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.3 ATOM 2037 OG SER 255 15.765 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3				CYS						7.30
ATOM 2029 O CYS 253 10.402 42.803 0.185 1.00 6.6 ATOM 2030 N GLY 254 12.562 41.539 -6.585 1.00 7.0 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.3 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3		2028	С							7.55
ATOM 2030 N GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2031 CA GLY 254 13.063 42.360 -5.503 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 7.8	MOTA	2029								6.67
ATOM 2031 CA GLY 254 13.850 43.536 -6.046 1.00 7.0 ATOM 2032 C GLY 254 13.850 43.536 -7.269 1.00 7.7 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.6 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 7.8										7.05
ATOM 2032 C GLY 254 14.011 43.696 -7.269 1.00 7.7 ATOM 2033 O GLY 254 14.011 43.696 -7.269 1.00 7.3 ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.6 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 7.8										7.09
ATOM 2034 N SER 255 14.338 44.380 -5.130 1.00 7.3 ATOM 2035 CA SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 7.8										7.78
ATOM 2035 CA SER 255 14.942 45.634 -5.560 1.00 8.3 ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 7.8										7.39
ATOM 2036 CB SER 255 14.980 46.646 -4.420 1.00 8.0 ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 7.8							45.634			8.33
ATOM 2037 OG SER 255 15.785 46.124 -3.385 1.00 9.5 ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 7.8 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 7.8										8.09
ATOM 2038 C SER 255 16.275 45.443 -6.277 1.00 10.3 ATOM 2039 O SER 255 16.710 46.348 -6.979 1.00 10.3 ATOM 2039 O SER 256 16.928 44.287 -6.184 1.00 7.8										9.54 7.85
ATOM 2039 O SER 255 16.710 46.348 -8.779 1.00 7.8			С							10.10
700 756 16 478 44.207 VI-S										7.83
*** *** *** *** *** *** *** *** *** **	MOTA	2040	N	TYR	256	16.928	44.20/	2.22.		

	2041	CA	TYR	256	18.151	44.106	-6.964	1.00	8.12
ATCM ATCM	2041 2042	CB	TYR	256	18.966	42.909	-6.486	1.00	7.96
ATOM	2043	CG	TYR	256	20.395	42.919	-7.017	1.00	7.92 9.18
ATOM	2044	CD1	TYR	256	21.351	43.735	-6.425 -6.866	1.00	9.56
ATOM	2045	CE1	TYR	256	22.665	43.731 42.110	-8.068	1.00	8.38
ATCM	2046	CD2	TYR	256	20.800 22.119	42.114	-8.530	1.00	8.77
MOTA	2047	CE2	TYR	256 256	23.030	42.931	-7.942	1.00	7.91
MOTA	2048	CZ	TYR TYR	256	24.334	42.919	-8.446	1.00	10.55
ATOM	2049	OH C	TYR	256	17.790	44.007	-8.444	1.00	7.77
ATOM	2050 2051	0	TYR	256	18.510	44.559	-9.307	1.00	9.14
MOTA MOTA	2052	N	MET	257	16.689	43.310	-8.767	1.00	8.12
ATOM	2053	CA	MET	257	16.220	43.230	-10.151	1.00	7.70 8.40
ATOM	2054	CB	MET	257	15.002	42.301	-10.305	1.00 1.00	9.02
ATOM	2055	CG	MET	257	14.582	42.102	-11.738 -12.738	1.00	9.56
MOTA	2056	SD	MET	257	15.730	41.115 39.485	-12.131	1.00	11.37
MOTA	2057	CE	MET	257 257	15.233 15.843	44.629	-10.670	1.00	6.94
MOTA	2058	С 0	MET MET	257	16.150	44.976	-11.819	1.00	8.48
MOTA	2059 2060	N	ALA	258	15.189	45.427	-9.842	1.00	7.83
ATOM ATOM	2061	CA	ALA	258	14.807	46.786	-10.242	1.00	8.49
ATOM	2062	CB	ALĀ	258	13.940	47.433	-9.204	1.00	8.60 8.95
ATOM	2063	С	ALA	258	16.074	47.582	-10.550	1.00 1.00	10.68
ATOM	2064	0	ALA	258	16.128	48.339	-11.526 -9.717	1.00	9.55
ATOM	2065	N	HIS	259	17.075	47.456	-9.987	1.00	9.84
ATOM	2066	CA	HIS	259	18.325 19.298	48.184 47.968	-8.806	1.00	10.82
MOTA	2067	CB	HIS	259 259	20.581	48.672	-8.960	1.00	12.01
ATOM	2068	CG CD2	HIS HIS	259	20.785	50.004	-B.919	1.00	11.84
MOTA	2069 2070	ND1	HIS	259	21.801	48.079	-9.209	1.00	14.52
MOTA MOTA	2071	CEI	HIS	259	22.701	49.050	-9.270	1.00	12.90
MOTA	2072	NE2	HIS	259	22.106	50.209	-9.115	1.00	14.66 9.17
ATOM	2073	С	HIS	259	18.949	47.746	-11.296	1.00 1.00	11.20
ATOM	2074	0	HIS	259	19.275	48.580	-12.144 -11.529	1.00	9.71
ATOM	2075	N	LEU	260	19.091	46.450 45.917	-12.699	1.00	11.16
ATOM	2076	CA	LEU	260	19.763 19.771	44.362	-12.647	1.00	13.64
MOTA	2077	CB	LEU	260 260	20.621	43.697	-11.579	1.00	14.53
MOTA	2078	CG CD1	LEU	260	20.446	42.195	-11.659	1.00	15.33
ATOM	2079 2080	CD2	LEU	260	22.081	44.131	-11.700	1.00	18.49
MOTA MOTA	2081	C	LEU	260	19.044	46.315	-13.989	1.00	10.90 11.94
MOTA	2082	ō	LEU	260	19.715	46.435	-15.017	1.00	9.82
MOTA	2083	N	THR	261	17.723	46.442	-13.932	1.00 1.00	10.23
MOTA	2084	CA	THR	261	16.920	46.680	-15.141 -15.202	1.00	9.32
MOTA	2085	CB	THR	261	15.671 14.737	45.798 46.138	-14.174	1.00	9.59
MOTA	2085	OG1	THR	261 261	16.000	44.325	-15.098	1.00	10.96
MOTA	2087	CG2	THR THR	261	16.492	48.151	-15.298	1.00	10.83
MOTA	2088	С 0	THR	261	15.664	48.493	-16.138	1.00	12.22
ATOM	2089 2090	N	ASN	262	17.009	48.999	-14.417	1.00	12.86
MOTA MOTA	2091	CA	ASN	262	16.643	50.411	-14.405	1.00	13.99 16.72
ATOM	2092	CB	ASN	262	17.162	51.124	-15.670	1.00	18.72
ATOM	2093	CG	ASN	262		52.624	-15.414 -14.306	1.00	23.20
MOTA	2094	OD1	ASN	262	17.484	53.032	-16.351	1.00	23.32
ATOM	2095	ND2	ASN	262		53.423 50.639	-14.281	1.00	14.56
MOTA	2096	C	ASN	262 262		51.455	-14.945	1.00	17.11
MOTA	2097	0	asn Rea	263		49.836	-13.381	1.00	13.82
MOTA	2098	N CA	ASN	263		49.902	-13.081	1.00	15.46
MOTA	2099 2100	CB	N.S.A	263		51.289	-12.502	1.00	17.97
MOTA MOTA	2101	CG	ASN	263		51.276	-11.157	1.00	17.06
MOTA	2102	001		263	12.128	50.271	-10.466	1.00	15.00 25.64
MOTA	2103	ND2		263		52.359	-10.866	1.00 1.00	13.77
ATOM	2104	С	ASN	263		49.450	-14.215 -14.160	1.00	18.41
ATOM	2105	0	ASN	263		49.566 48.764	-15.236	1.00	13.79
MOTA	2106	N	TYR	264		48.149	-16.255	1.00	14.19
MOTA	2107	CA	TYR	264 264		47.613	-17.416	1.00	15.13
ATOM	2108	CB	TYR	264		46.818	-18.494	1.00	16.36
MOTA	2109	CG	TYR TYR	264		47.371	-19.362	1.00	17.78
MOTA	2110	CD1		264		46.634	-20.350	1.00	18.06
MOTA	2111 2112	CD2		264		45.484	-18.745	1.00	16.68
MOTA MOTA	2112	CE		264		44.748	-19.760	1.00	16.65
AION									

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ATON:	2114	CZ TYR	264	10.716	45.314	-20.586	1.00	18.96
ATOM	2115	CH TYR	264	10.037	44.587	-21.573	1.00	18.75
ATOM	2116	C TY		11.078	47.051	-15.593	1.00	12.40
ATOM	2117	O TY		9.880	46.958	-15.851	1.00	13.61
ATOM	2118	N TY		11.724	46.245 45.308	-14.738 -13.845	1.00	10.62 9.32
ATON	2119	CA TY		11.038 11.580	43.896	-13.877	1.00	9.65
ATOM	2120	CB TY		11.384	43.145	-15.197	1.00	9.18
ATOM	2121 2122	CD1 TY		11.979	41.897	-15.374	1.00	9.12
ATOM ATOM	2122	CE1 TY		11.788	41.151	-16.513	1.00	9.35
ATOM	2123	CD2 TY		10.575	43.607	-16.232	1.00	9.97
ATOM	2125	CE2 TY		10.412	42.861	-17.391	1.00	9.60
ATOM	2126	CZ TY		11.019	41.653	-17.546	1.00	8.98
ATOM	2127	OH TY		10.956	40.929	-18.694	1.00	9.24
MOTA	2128	C TY	R 265	11.143	45.898	-12.455	1.00	8.87
ATOM	2129	O TY	R 265	12.165	45.736	-11.793	1.00	10.25
ATOM	2130	N LY	S 266	10.091	46.591	-12.039	1.00	9.35
MOTA	2131	CA LY		10.042	47.206	-10.722	1.00	10.27
ATOM	2132	CB LY		8.764	48.067	-10.542	1.00	11.78
MOTA	2133	CG LY		8.796	49.269	-11.544	1.00	15.74 20.41
ATOM	2134	CD LY		7.679	50.219	-11.609 -12.461	1.00 1.00	27.15
ATOM	2135	CE LY		8.060 8.880	51.436 51.073	-13.684	1.00	38.27
ATOM	2136 2137	NZ LY C LY		9.917	46.141	-9.642	1.00	9.64
ATOM ATOM	2137	O LY		9.483	45.006	-9.859	1.00	11.33
ATOM	2138	N AL		10.398	46.495	-3.457	1.00	8.21
ATOM	2140	CA AL		10.177	45.669	-7.302	1.00	8.00
ATOM	2141	CB AL		11.263	45.935	-6.279	1.00	9.27
ATOM	2142	C AL		8.810	46.112	-5.747	1.00	8.06
MOTA	2143	O AL	A 267	8.703	47.252	-6.265	1.00	9.31
ATOM	2144	N PR	0 268	7.786	45.314	-6.903	1.00	7.87
MOTA	2145	CD PR		7.704	43.960	-7.464	1.00	8.45
ATOM	2145	CA PR		6.464	45.815	-6.507	1.00	8.53
MOTA	2147	CB PR		5.497	44.732	-6.971	1.00	8.95
ATOM	2148	CG PR		6.340	43.491	-6.981	1.00	9.67 7.51
ATOM	2149	C PR		6.342	46.060	-5.020 -4.237	1.00 1.00	8.65
ATOM	2150	O PR		6.832 5.648	45.247 47.157	-4.658	1.00	7.63
ATOM	2151 2152	N IL		5.356	47.441	-3.254	1.00	7.94
ATOM ATOM	2152	CB IL		5.120	48.928	-2.981	1.00	9.79
ATOM	2154	CG2 IL		4.494	49.172	-1.634	1.00	10.56
ATOM	2155	CG1 IL		6.437	49.720	-3.185	1.00	13.68
ATOM	2156	CD1 IL		6.187	51.182	-3.479	1.00	23.32
ATOM	2157	C IL	E 269	4.170	46.593	-2.837	1.00	7.83
ATOM	2158	o IL	E 269	3.149	46.540	-3.511	1.00	9.16
ATOM	2159	N HI		4.317	45.894	-1.703	1.00	7.29
ATOM	2160	CA HI		3.276	45.019	-1.206	1.00	7.01
MOTA	2161	CB HI		3.400	43.626	-1.835	1.00	7.25
ATOM	2162	CG HI		4.744	43.024	-1.598 -0.746	1.00 1.00	7.13 7.31
MOTA	2163	CD2 HI		5.128	42.038 43.389	-2.273	1.00	7.07
ATOM	2164	ND1 HI CE1 HI		5.880 6.904	42.683	-1.826	1.00	7.87
MOTA MOTA	2165 2166	CE1 HI NE2 HI		6.489	41.831	-0.890	1.00	7.31
ATOM	2167	C HI		3.274	44.991	0.302	1.00	6.54
ATOM	2168	о ні		4.212	45.458	0.936	1.00	7.63
ATOM	2169	N AR		2.201	44.490	0.896	1.00	6.78
ATOM	2170	CA AR		1.988	44.467	2.318	1.00	6.60
MOTA	2171	CB AR	.G 271	1.366	45.769	2.853	1.00	7.26
MOTA	2172	CG AF	.G 271	-0.088	45.972	2.398	1.00	8.12
MOTA	2173	CD AF		-0.543	47.381	2.652	1.00	8.48
ATOM	2174	ne af		-1.974	47.504	2.297	1.00	9.27
MOTA	2175	CZ AF			48.651	2.312	1.00	9.64
MOTA	2176	NH1 AF			49.802	2.648	1.00	10.45 11.63
MOTA	2177	NH2 AF			48.660	1.968 2.682	1.00 1.00	6.79
MOTA	2178	C AF			43.252 42.637	1.805	1.00	7.95
ATOM	2179	O AF			42.637	3.953	1.00	7.33
ATOM	2180	N VI CA VI		0.444	41.736	4.493	1.00	6.97
ATOM ATOM	2181 2182	CB V			40.830	5.328	1.00	7.37
MOTA	2182	CG1 V			39.661	5.865	1.00	9.31
ATOM	2184	CG2 V			40.388	4.562	1.00	9.68
ATOM	2185	C V			42.173	5.378	1.00	6.78
ATOM	2186	o v		-0.470	42.805	6.415	1.00	7.67

MOTA	2187	11	LYS	273	-1.917	41.839	4.950	1.00	7.33
		CA	LYS	273	-3.061	42.135	5.792	1.00	8.38
MOTA	2188			273	-4.364	41.763	5.047	1.00	9.72
MOTA	2189	СВ	LYS				3.950	1.00	13.66
MOTA	2190	CG	LYS	273	-4.658	42.765			
ATOM	2191	CD	LYS	273	-6.090	42.725	3.437	1.00	20.08
ATOM	2192	CE	LYS	273	-6.381	41.379	2.873	1.00	21.66
ATOM	2193	NZ	LYS	273	-7.801	41.227	2.413	1.00	19.22
ATOM	2194	С	LYS	273	-3.047	41.256	7.047	1.00	7.72
ATOM	2195	0	LYS	273	-2.628	40.112	7.023	1.00	8.06
		ห	TRP	274	-3.644	41.812	8.114	1.00	7.85
ATOM	2196			274	-3.914	41.041	9.322	1.00	8.01
MOTA	2197	CA	TRP					1.00	8.38
MOTA	2198	СВ	TRP	274	-4.314	41.953	10.481		
ATOM	2199	CG	TRP	274	-4.864	41.210	11.655	1.00	B.22
MOTA	2200	CD2	TRP	274	-6.226	41.225	12.078	1.00	8.59
ATOM	2201	CE2	TRP	274	-6.311	40.370	13.188	1.00	9.23
ATOM	2202	CE3	TRP	274	-7.393	41.859	11.630	1.00	10.81
ATOM	2203	CD1	TRP	274	-4.216	40.377	12.490	1.00	8.98
ATOM	2204	NE1	TR?	274	-5.074	39.850	13.430	1.00	9.16
			TRP	274	-7.485	40.145	13.881	1.00	9.84
ATOM	2205	CZ2				41.630	12.309	1.00	12.75
MOTA	2206	CZ3	TRP	274	-8.570			1.00	12.58
MOTA	2207	CH2	TRP	274	-8.591	40.765	13.403		
MOTA	2208	C	TRP	274	-5.114	40.123	9.043	1.00	7.32
MOTA	2209	0	TRP	274	-6.156	40.621	8.598	1.00	8.37
MOTA	2210	N	VAL	275	-4.963	38.854	9.345	1.60	7.40
ATOM	2211	CA	VAL	275	-6.042	37.883	9.221	1.00	7.99
ATOM	2212	CB	VAL	275	-5.913	37.057	7.931	1.00	11.04
				275	-7.152	36.169	7.828	1.00	13.41
MOTA	2213	CG1	VAL				6.702	1.00	15.17
ATOM	2214	CG2	VAL	275	-5.765	37.904			
ATOM	2215	C	VAL	275	-5.933	37.000	10.457	1.00	7.32
ATOM	2216	0	VAL	275	-4.818	36.547	10.759	1.00	8.66
ATOM	2217	N	ASN	276	-7.013	36.774	11.175	1.00	7.50
ATOM	2218	CA	ASN	276	-6.930	35.898	12.365	1.00	8.58
ATOM	2219	СВ	ASN	276	-7.921	36.377	13.414	1.00	9.69
	2220	CG	ASN	276	-7.600	35.733	14.757	1.00	10.43
MOTA				276	-6.631	34.956	14.885	1.00	9.69
ATOM	2221	OD1	ASN				15.765	1.00	12.06
ATOM	2222	ND2	ASN	276	-8.414	35.995			8.56
MOTA	2223	С	ASN	276	-7.172	34.443	11.976	1.00	
MOTA	2224	0	ASN	276	-8.281	33.914	12.021	1.00	9.02
ATOM	2225	N	ALA	277	-6.107	33.815	11.504	1.00	8.26
ATOM	2226	CA	ALA	277	-6.107	32.466	10.982	1.00	8.04
ATCM	2227	CB	ALA	277	-6.438	32.469	9.514	1.00	9.72
ATCM	2228	C	ALA	277	-4.711	31.860	11.136	1.00	7.91
		ō	ALA	277	-3.705	32.537	10.998	1.00	8.82
ATOM	2229				-4.674	30.592	11.445	1.00	7.51
ATOM	2230	N	GLU	278				1.00	7.98
MOTA	2231	ÇA	GLU	278	-3.460	29.801	11.557		
ATOM	2232	CB	GLU	278	-3.727	28.504	12.302	1.00	10.38
ATOM	2233	CG	GLU	278	-2.539	27.650	12.655	1.00	11.75
ATOM	2234	CD	GLU	278	-1.613	28.347	13.638	1.00	10.88
ATOM	2235	OE1	GLU	278	-0.419	28.424	13.314	1.00	12.63
ATOM	2236	OE2	GLU	278	-2.074	28.833	14.680	1.00	10.57
		C	GLU	278	-3.034	29.524	10.111	1.00	8.98
ATOM	2237				-3.719	28.836	9.346	1.00	12.15
ATOM	2238	0	GLU	278			9.738	1.00	8.14
MOTA	2239	N	ARG	279	-1.864	30.037			8.39
MOTA	2240	CA	ARG	279	-1.410	29.901	8.373	1.00	
ATOM	2241	CB	ARG	279	-2.095	30.906	7.472	1.00	10.37
ATOM	2242	CG	ARG	279	-1.659	32.310	7.818	1.00	10.01
MOTA	2243	CD	ARG	279	-2.541	33.367	7.101	1.00	9.69
ATOM	2244	NE	ARG	279	-2.026	34.712	7.405	1.00	9.29
	2245	cz	ARG	279	-0.965	35.208	6.775	1.00	9.20
MOTA				279	-0.368	34.596	5.774	1.00	9.24
ATOM	2246	NH1	ARG				7.129	1.00	9.29
MOTA	2247	NH2	ARG	279	-0.490	36.396			
MOTA	2248	С	ARG	279	0.095	29.920	8.275	1.00	7.13
ATOM	2249	0	ARG	279	0.821	30.149	9.252	1.00	8.10
MOTA	2250	N	GLN	280	0.593	29.601	7.095	1.00	7.21
ATOM	2251	CA	GLN	280	2.006	29.505	6.778	1.00	7.07
ATOM	2252	CB	GLN	280	2.318	28.088	6.255	1.00	8.87
		CG	GLN	280	2.043	27.047	7.312	1.00	8.89
MOTA	2253			280	2.188	25.645	6.771	1.00	8.58
MOTA	2254	CD	GLN				5.571	1.00	11.01
MOTA	2255	OEl	GLN	280	2.067	25.442			
ATOM	2256	NE2	GLN	280	2.533	24.689	7.591	1.00	8.97
ATOM	2257	C	GLN	280	2.389	30.454	5.653	1.00	6.21
ATOM	2258	ο.	GLN	280	1.634	30.606	4.671	1.00	7.53
ATOM	2259	N	SER	281	3.554	31.037	5.779	1.00	6.11

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ATOM	2260	CA	SER	281	4.156	31.865	4.744	1.00	6.44
ATOM	2261	СВ	SER	281	4.016	33.345	5.109	1.00	7.40
MOTA	2262	OG	SER	281	4.520	34.121	4.016	1.00	8.04
MOTA	2263	C	SER	281	5.617	31.443	4.606	1.00	6.56 6.58
MOTA	2264	0	SER	281	6.374 5.952	31.574 30.778	5.574 3.493	1.00 1.00	5.40
MOTA	2265	N CA	LEU LEU	282 282	7.243	30.778	3.352	1.00	6.03
MOTA MOTA	2266 2267	CB	LEU	282	6.986	28.583	3.195	1.00	6.16
ATOM	2268	CG	LEU	282	5.982	27.942	4.203	1.00	7.21
ATOM	2269	CD1	LEU	282	5.851	26.441	3.942	1.00	8.79
MOTA	2270	CD2	LEU	282	6.340	28.188	5.661	1.00	8.29
ATOM	2271	С	LEU	282	8.025	30.641	2.173	1.00	5.52 5.66
MOTA	2272	0	LEU	282	8.055	30.039 31.801	1.071 2.318	1.00 1.00	5.55
ATOM	2273	N	PRO PRO	283 283	8.632 8.549	32.739	3.463	1.00	5.92
ATOM ATOM	2274 2275	CD CA	PRO	283	9.437	32.349	1.222	1.00	5.72
ATOM	2276	CB	PRO	283	9.634	33.815	1.631	1.00	6.44
ATOM	2277	CG	PRO	283	9.624	33.748	3.131	1.00	6.28
ATOM	2278	С	PRO	283	10.795	31.729	1.057	1.00	4.97
MOTA	2279	0	PRO	283	11.445	31.312	2.006	1.00	5.92
MOTA	2280	N	PHÉ	284	11.262	31.720 31.498	-0.187 -0.602	1.00 1.00	5.22 4.80
ATOM	2281	CA	PHE	284 284	12.642 12.785	30.323	-1.566	1.00	5.14
ATOM	2282 2283	CB CG	PHE	284	14.184	29.960	-1.983	1.00	4.79
ATOM ATOM	2284	CD1	PHE	284	15.089	29.473	-1.057	1.00	5.39
ATOM	2285	CD2	PHE	284	14.591	30.026	-3.286	1.00	5.89
ATOM	2286	CE1	PHE	284	16.341	29.032	-1.451	1.00	5.76
ATOM	2287	CE2	PHE	284	15.828	29.633	-3.714	1.00	5.70
ATOM	2288	CŽ	PHE	284	16.714	29.109	-2.787 -1.263	1.00 1.00	5.57 4.78
MOTA	2289	C	PHE PHE	284 284	13.119 12.566	32.795 33.190	-2.308	1.00	5.98
ATOM	2290 2291	N O	PHE	285	14.114	33.448	-0.659	1.00	5.91
ATOM ATOM	2292	CA	PHE	285	14.656	34.687	-1.215	1.00	5.10
ATOM	2293	CB	PHE	285	15.058	35.637	-C.062	1.00	6.13
ATOM	2294	CG	PHE	285	13.858	36.096	0.747	1.00	6.38
MOTA	2295	CD1	PHE	285	13.665	35.656	2.044	1.00	5.54
MOTA	2296	CD2	PHE	285	12.909	36.933	0.195 2.765	1.00 1.00	6.45 7.21
ATOM	2297	CE1	PHE PHE	285 285	12.534 11.781	36.014 37.303	0.891	1.00	7.45
ATOM ATOM	2298 2299	CE2 CZ	PHE	285	11.610	36.853	2.177	1.00	7.71
ATOM	2300	c	PHE	285	15.812	34.333	-2.108	1.00	5.08
ATOM	2301	0	PHE	285	16.915	33.800	-1.608	1.00	6.02
ATOM	2302	N	VAL	286	15.658	34.588	-3.399	1.00	5.58
MOTA	2303	CA	VAL	286	16.696	34.255	-4.364 -5.766	1.00 1.00	5.56 5.78
ATOM	2304	CB	VAL	286 286	16.104 17.189	34.056 33.783	-6.814	1.00	7.42
MOTA	2305 2306	CG1 CG2	VAL VAL	286	15.065	32.922	-5.710	1.00	7.19
ATOM ATOM	2306	C	VAL	286	17.756	35.372	-4.347	1.00	5.98
ATOM	2308	ō	VAL	286	17.569	36.453	-4.895	1.00	6.92
ATOM	2309	N	ASN	287	18.839	35.082	-3.642	1.00	5.82
MOTA	2310	CA	ASN	287	20.008	35.922	-3.466	1.00	6.12 6.40
MOTA	2311	CB	ASN	287	20.324	36.042	-1.971 -1.183	1.00	6.40
ATCM	2312	CG	ASN	287 287	19.235 18.623	36.737 37.682	-1.683	1.00	7.35
ATCM	2313	0D1 ND2	nsa Nea	287	19.036	36.262	0.073	1.00	6.70
MOTA MOTA	2314 2315	C	ASN	287	21.187	35.296	-4.216	1.00	5.72
ATOM	2316	ō	ASN	287	21.271	34.072	-4.300	1.00	6.46
MOTA	2317	N	LEU	288	22.049	36.145	-4.781	1.00	6.71
ATOM	2318	CA	LEU	288	23.223	35.679	-5.499	1.00	6.46
MOTA	2319	CB	LEU	288	23.538	36.703	-6.595	1.00 1.00	7.57 8.20
MOTA	2320	CG	LEU	288	22.371	36.977	-7.570 -8.621	1.00	10.08
ATOM	2321	CD1 CD2	LEU	288 288	22.819 21.880	37.998 35.687	-8.189	1.00	8.32
MOTA MOTA	2322 2323	CD2	LEU	288	24.381	35.444	-4.525	1.00	7.33
ATOM	2323	0	LEU	288	24.140	35.277	-3.317	1.00	8.58
ATOM	2325	N	GLY	289	25.607	35.358	-5.037	1.00	7.93
MOTA	2326	CA	GLY	289	26.765	35.216	-4.155	1.00	7.86
MOTA	2327	C	GLY	289	27.242	36.571	-3.667	1.00 1.00	7.24 8.44
ATOM	2328	0	GLY	289	26.890	37.634 36.559	-4.186 -2.633	1.00	7.71
MOTA	2329	N CA	TYR TYR	290 290	28.075 28.503	37.789	-1.986	1.00	6.91
ATOM ATOM	2330 2331	CB CB	- TYR	290	29.407	37.453	-0.813	1.00	9.56
ATOM	2332	CG	TYR	290	29.638	38.614	0.135	1.00	9.12

» TOV	2333	CD1	TYR	290	28.720	38.961	1.118	1.00	10.55
ATOM ATOM	2334	CE1	TYR	290	28.949	40.041	1.966	1.00	12.13
ATOM	2335	CD2	TYR	290	30.792	39.367	0.036	1.00	12.09
MOTA	2336	CE2	TYR	290	31.035	40.426	0.887	1.00	13.43
MOTA	2337	CZ	TYR	290	30.129	40.766	1.861	1.00	13.85
ATOM	2338	ОН	TYR	290	30.407	41.847	2.679	1.00	16.61
ATOM	2339	C	TYR	290	29.196	38.783	-2.903	1.00	8.98
ATOM	2340	0	TYR	290	28.979	39.980	-2.814	1.00	9.66
ATOM	2341	N	ASP	291	30.009	38.246	-3.816	1.00	9.63
ATOM	2342	CA	ASP	291	30.738	39.081	-4.766	1.00	11.13
ATOM	2343	CB	ASP	291	32.143	38.545	-4.920	1.00	14.78
ATOM	2344	CG	ASP	291	33.015	38.830	-3.715	1.00	19.43
ATOM	2345	OD1	ASP	291	34.005	38.109	-3.515	1.00	30.38
ATOM	2346	QD2	ASP	291	32.776	39.787	-2.963	1.00	21.52
ATOM	2347	Ċ	ASP	291	30.075	39.198	-6.123	1.00	10.76
ATCM	2348	0	ASP	291	30.676	39.770	-7.035	1.00	14.21
ATOM	2349	N	SER	292	28.867	38.636	-6.294	1.00	10.05
ATOM	2350	CA	SER	292	28.226	38.714	-7.606	1.00	9.39
ATOM	2351	CB	SER	292	26.908	37.921	-7.562	1.00	9.60
ATOM	2352	OG	SER	292	27.117	36.538	-7.241	1.00	10.02
ATOM	2353	С	SER	292	27.915	40.181	-7.922	1.00	9.65
ATOM	2354	0	SÉŘ	292	27.303	40.934	-7.170	1.00	10.11
ATOM	2355	N	VAL	293	28.284	40.587	-9.123	1.00	11.44
ATOM	2356	CA	VAL	293	27.948	41.879	-9.675	1.00	12.30
ATOM	2357	СВ	VAL	293	29.177	42.809	-9.749	1.00	14.95
ATOM	2358	CG1	VAL	293	28.691	44.199	-10.166	1.00	20.38
ATOM	2359	CG2	VAL	293	29.947	42.902	-8.464	1.00	18.62
ATOM	2360	С	VAL	293	27.402	41.683	-11.091	1.00	13.15
ATOM	2361	0	VAL	293	27.976	41.020	-11.971	1.00	17.31
ATOM	2362	N	ILE	294	26.232	42.246	-11.309	1.00	13.36
ATOM	2363	CA	ILE	294	25.669	42.289	-12.650	1.00	16.26
ATOM	2364	CB	ILE	294	24.283	41.645	-12.648	1.00	18.21
ATOM	2365	CG2	ILE	294	23.540	41.879	-13.941	1.00	22.79
ATOM	2366	CG1	ILE	294	24.529	40.135	-12.350	1.00	19.50
ATOM	2367	CD1	ILE	294	23.255	39.371	-12.397	1.00	21.00
MOTA	2368	С	ILE	294	25.616	43.756	-13.059	1.00	14.95
ATOM	2369	О	ILE	294	25.193	44.619	-12.311	1.00	14.96
ATOM	2370	N	ASP	295	26.164	44.020	-14.235	1.00	15.39
ATOM	2371	CA	ASP	295	26.203	45.398	-14.709	1.00	16.58
ATOM	2372	CB	ASP	295	27.214	45.501	-15.857	1.00	23.82
ATOM	2373	CG	ASP	295	28.612	45.188	-15.298	1.00	30.17
ATOM	2374	OD1	ASP	295	29.304	44.457	-16.044	1.00	42.83 32.91
ATOM	2375	OD2	ASP	295	29.000	45.638	-14.184	1.00	13.64
ATOM	2376	С	ASP	295	24.803	45.841	-15.109	1.00	14.07
ATOM	2377	0	ASP	295	24.072	45.199	-15.856	1.00	12.78
MOTA	2378	N	PRO	296	24.390	46.969	-14.533	1.00 1.00	14.44
ATOM	2379	CD	PRO	296	25.049	47.684	-13.426	1.00	12.67
MOTA	2380	CA	PRO	296	23.029	47.467	-14.847	1.00	14.23
MOTA	2381	CB	PRO	296	22.877	48.659	-13.923 -12.818	1.00	16.25
MOTA	2382	CG	PRO	296	23.840	48.351	-16.319	1.00	12.63
ATOM	2383	С	PRO	296	22.825	47.803	-17.032	1.00	14.48
ATOM	2384	0	PRO	296	23.750	48.221	-16.800	1.00	11.48
MOTA	2385	N	PHE	297	21.602	47.615	-18.195	1.00	11.96
MOTA	2386	CA	PHE	297	21.260	47.872 46.632	-19.046	1.00	12.04
MOTA	2387	CB	PHE	297	21.388	45.425	-18.690	1.00	12.30
ATOM	2388	CG	PHE	297	20.543	45.126	-19.386	1.00	15.33
MOTA	2389	CD1	PHE	297	19.390	44.597	-17.664	1.00	12.58
MOTA	2390	CD2	PHE	297	20.900	44.005	-19.091	1.00	17.14
ATOM	2391	CEI	PHE	297	18.648	43.510	-17.311	1.00	14.52
MOTA	2392	CE2	PHE	297	20.121	43.235	-18.003	1.00	16.56
ATOM	2393	CZ	PHE	297	18.969	48.421	-18.246	1.00	13.07
MOTA	2394	С	PHE	297	19.837	48.472	-17.219	1.00	14.15
MOTA	2395	0	PHE	297	19.162	48.809	-19.429	1.00	16.06
MOTA	2396	N	ASP	298	19.390	49.272	-19.601	1.00	15.45
MOTA	2397	CA	ASP	298	18.024	50.788	-19.547	1.00	17.44
MOTA	2398	CB	ASP	298	18.023	51.374	-19.488	1.00	17.86
ATOM	2399	CG	ASP	298	16.519	50.717	-19.809	1.00	17.50
MOTA	2400	OD1	ASP	298	15.634	52.580	-19.143	1.00	20.86
MOTA	2401	002	ASP	298	16.583	48.753	-20.900	1.00	16.52
MOTA	2402	C	ASP	298	17.436 17.736	49.281	-21.973	1.00	17.05
MOTA	2403	0	ASP	298 299	16.541	47.776	-20.829	1.00	16.19
MOTA	2404	И	PRO	299	16.199	47.050	-19.589	1.00	17.38
MOTA	2405	CD	PRO	279	10.133				

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MOTA	2406	CA	PRO	299	15.887	47.212	-22.014	1.00	15.63
ATOM	2407	СВ	PRO	299	15.397	45.853	-21.561	1.00	19.59
ATOM	2408	CG	PRO	299	15.676	45.745	-20.112	1.00	21.05
ATOM	2409	С	PRO	299	14.854	48.081	-22.726	1.00	17.45
ATOM	2410	0	PRO	299	14.213	47.662	-23.730	1.00	18.54
ATOM	2411	N	ARG	300	14.703	49.327	-22.232	1.00	16.34
ATOM	2412	CA	ARG	300	13.857	50.321	-22.881	1.00	18.12
MOTA	2413	CB	ARG	300	13.086	51.146	-21.833	1.00	19.33
MOTA	2414	CG	ARG	300	11.959	50.301	-21.242	1.00	21.93
MOTA	2415	CD	ARG	300	11.237	50.861	-20.020	1.00 1.00	25.26 30.85
MOTA	2416	NE	ARG	300	12.231	51.198	-19.046 -17.857	1.00	29.50
MOTA	2417	CZ	ARG	300	12.419	51.701	-17.096	1.00	32.95
MOTA	2418	NH1	ARG	300	11.422	52.069	-17.407	1.00	30.59
ATOM	2419	NH2	ARG	300	13.671	51.781 51.279	-23.726	1.00	17.96
MOTA	2420	C	ARG	300	14.691	52.081	-24.462	1.00	17.01
MOTA	2421	0	ARG	300 301	14,138 15.997	51.254	-23.552	1.00	17.71
MOTA	2422	И	GLU GLU	301	16.913	52.185	-24.206	1.00	19.38
MOTA	2423	CA	GLU	301	17.619	51.524	-25.392	1.00	18.52
MOTA	2424	С О	GLU	301	18.127	50.400	-25.261	1.00	17.52
ATOM	2425 2426	CB	GLU	301	17.949	52.595	-23.157	1.00	23.66
ATOM ATOM	2427	CG	GLU	301	17.521	53.757	-22.322	1.00	27.35
ATOM	2428	CD	GLU	301	16.969	54.959	-23.059	1.00	32.53
ATOM	2429	OE1	GLU	301	17.705	55.499	-23.901	1.00	38.75
ATOM	2430	OE2	GLU	301	15.841	55.411	-22.764	1.00	38.29
ATOM	2431	N	PRO	302	17.667	52.160	-26.553	1.00	18.63
ATOM	2432	CD	PRO	302	17.042	53.464	-26.839	1.00	21.36
MOTA	2433	CA	PRO	302	18.277	51.571	-27.738	1.00	20.96
ATOM	2434	СЭ	PRO	302	18.222	52.693	-28.776	1.00	22.61
ATOM	2435	CG	PRO	302	17.001	53.446	-28.341	1.00	22.90
MOTA	2436	С	PRO	302	19.683	51.057	-27.579	1.00	21.62 24.93
MOTA	2437	0	PRO	302	19.874	49.926	-28.009 -26.771	1.00 1.00	21.61
MOTA	2438	N	ASN	303	20.520	51.712	-26.771	1.00	22.90
MOTA	2439	CA	ASN	303	21.840	51.125	-26.448	1.00	26.88
MOTA	2440	СВ	ASN	303	22.905	52.194 53.204	-25.353	1.00	27.57
MOTA	2441	CG	ASN	303	22.642 21.822	52.996	-24.467	1.00	23.80
MOTA	2442	OD1	ASN	303 303	23.353	54.329	-25.453	1.00	29.21
MOTA	2443	ND2	asn asn	303	21.931	50.221	-25.360	1.00	20.67
ATOM	2444	С 0	asn	303	23.039	49.773	-25.049	1.00	23.78
ATOM	2445	И	GLY	304	20.847	49.989	-24.661	1.00	17.93
ATCM	2446 2447	CA	GLY	304	20.793	49.190	-23.443	1.00	18.03
ATOM ATOM	2448	C	GLY	304	21.488	49.856	-22.276	1.00	17.52
ATOM	2449	Ö	GLY	304	21.576	49.239	-21.215	1.00	20.50
MOTA	2450	N	LYS	305	22.009	51.071	-22.342	1.00	18.09
ATOM	2451	CA	LYS	305	22.768	51.590	-21.208	1.00	20.79
ATOM	2452	С	LYS	305	21.921	52.252	-20.147	1.00	20.39
ATOM	2453	0	LYS	305	20.850	52.777	-20.392	1.00	21.26
MOTA	2454	CB	LYS	305	23.884	52.524	-21.675	1.00	24.72 30.61
MOTA	2455	CG	LYS	305	25.002	51.789	-22.421	1.00	36.33
MOTA	2456	CD	LYS	305	26.032	52.816	-22.869	1.00	39.54
MOTA	2457	CE	LYS	305	26.246	52.908	-24.360 -24.760	1.00	51.21
MOTA	2458	NZ	LYS	305	27.649	52.574 52.202	-18.921	1.00	18.96
MOTA	2459	N	SER	306	22.461	52.837	-17.816	1.00	19.30
MOTA	2460	CA	SER	306	21.758	51.732	-16.911	1.00	23.77
MOTA	2461	CB	SER	306 306	21.210 21.758	51.769	-15.640	1.00	26.38
ATOM	2462	og	SER	306	22.711	53.732	-17.050	1.00	16.95
MOTA	2463	C	SER SER	306	23.919	53.528	-16.996	1.00	20.29
MOTA	2464	0	ASP	307	22.159	54.728	-16.365	1.00	18.07
MOTA	2465	N	ASP	307	22.902	55.647	-15.527	1.00	17.75
MOTA	2466	CA CB	ASP	307	22.343	57.066	-15.646	1.00	19.69
MOTA	2467	CG	ASP	307	22.554	57.644	-17.030	1.00	21.31
ATOM ATOM	2468 2469	OD1	ASP	307	23.544	57.289	-17.717	1.00	25.76
ATOM	2469	OD2	ASP	307	21.697	58.413	-17.492	1.00	22.42
ATOM	2470	C	ASP	307	23.003	55.194	-14.083	1.00	17.12
ATOM	2472	ō	ASP	307	23.267	55.998	-13.150	1.00	15.97
ATOM	2472	N	ARG	308	22.897	53.886	-13.877	1.00	18.84
ATOM	2474	CA	ARG	308	23.109	53.313	-12.542	1.00	17.51
ATOM	2475	СВ	ARG	308	22.067	52.271	-12.242	1.00	16.86
ATOM	2476	CG	ARG	308	20.688	52.745	-11.848	1.00	15.69
ATOM	2477	CD	ARG	308	19.627	51.694	-11.982	1.00	18.04
ATOM	2478	NE	ARG	308	18.312	52.224	-11.687	1.00	17.41

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ATOM	2479	cz	ARG	308	17.733	52.219	-10.497	1.00	15.39
ATOM	2480	NHI	ARG	308	18.288	51.740	-9.404	1.00	14.58
ATOM	2481	NH2	ARG	308	16.517	52.713	-10.426	1.00	19.03
MOTA	2482	C	ARG	308	24.511	52.680	-12.443	1.00	18.59
MOTA	2483	0	ARG	308	25.055	52.218	-13.440	1.00	25.55
MOTA	2484	N	GLU	309	25.070	52.659	-11.241 -10.946	1.00	18.16 19.38
ATOM	2485	CA	GLU	309 309	26.350 27.058	52.054 52.935	-9.907	1.00	21.98
MOTA	2486	CB	GLU GLU	309	27.038	54.299	-10.501	1.00	25.52
ATOM	2487 2488	CD CD	GLU	309	28.319	54.244	-11.731	1.00	30.05
ATOM ATOM	2489	OE1	GLU	309	29.244	53.401	-11.942	1.00	36.16
ATOM	2490	OE2	GLU	309	28.114	55.058	-12.663	1.00	37.66
ATOM	2491	С	GLU	309	26.233	50.607	-10.484	1.00	15.87
ATOM	2492	0	GLU	309	25.287	50.180	-9.826	1.00	14.89
ATOM	2493	N	PRO	310	27.164	49.735	-10.842	1.00	14.73 16.91
MOTA	2494	CD	PRO	310	28.275	50.012	-11.799 -10.386	1.00 1.00	15.04
MOTA	2495	CA	PRO PRO	310 310	27.152 28.419	48.348 47.733	-11.059	1.00	17.03
ATOM	2496 2497	CB CG	PRO	310	28.700	48.625	-12.220	1.00	19.09
ATOM ATOM	2498	c	PRO	310	27.219	48.266	-8.874	1.00	13.88
ATOM	2499	ō	PRO	310	27.841	49.068	-8.164	1.00	15.60
ATOM	2500	N	LEU	311	26.474	47.318	-8.360	1.00	12.14
MOTA	2501	CA	LEU	311	26.338	47.085	-6.922	1.00	11.25
MOTA	2502	CB	LEU	311	24.878	47.460	-6.615	1.00	13.56
MOTA	2503	CG	LEU	311	24.457	47.333 48.120	-5.180 -4.233	1.00 1.00	13.90 20.42
MOTA	2504	CD1	LEU	311 311	25.339 22.986	47.700	-5.047	1.00	17.32
ATOM	2505 2506	CD2 C	LEU LEU	311	26.572	45.604	-6.622	1.00	10.64
MOTA MOTA	2507	0	LEU	311	25.915	44.759	-7.247	1.00	11.74
ATOM	2508	N	SER	312	27.494	45.257	-5.728	1.00	10.37
ATOM	2509	CA	SER	312	27.725	43.854	-5.407	1.00	11.32
MOTA	2510	CB	SER	312	29.040	43.653	-4.645	1.00	13.83
MOTA	2511	OG	SER	312	28.821	43.933	-3.284	1.00	20.95 9.82
MOTA	2512	С	SER	312	26.576	43.311 44.059	-4.593 -3.793	1.00 1.00	11.18
ATOM	2513	0	SER TYR	312 313	26.000 26.260	42.025	-4.815	1.00	9.06
ATOM	2514 2515	N CA	TYR	313	25.095	41.471	-4.152	1.00	8.56
ATOM ATOM	2516	CB	TYR	313	24.722	40.082	-4.734	1.00	9.03
ATOM	2517	CG	TYR	313	23.265	39.812	-4.375	1.00	7.11
ATOM	2518	CD1	TYR	313	22.290	40.192	-5.276	1.00	8.14
ATOM	2519	CE1	TYR	313	20.951	40.004	-5.038	1.00	8.04
ATOM	2520	CD2	TYR	313	22.871	39.273	-3.179 -2.889	1.00 1.00	6.33 6.78
MOTA	2521	CE2	TYR	313 313	21.525 20.558	39.151 39.481	-3.810	1.00	6.87
ATOM	2522	CZ OH	TYR TYR	313	19.227	39.413	-3.570	1.00	7.92
MOTA MOTA	2523 2524	C	TYR	313	25.247	41.465	-2.642	1.00	8.88
ATOM	2525	ō	TYR	313	24.295	41.721	-1.876	1.00	8.66
ATOM	2526	N	GLY	314	26.436	41.154	-2.137	1.00	9.27
ATOM	2527	CA	GLY	314	26.636	41.130	-0.699	1.00	10.93
MOTA	2528	С	GLY	314	26.438	42.475	-0.028 1.044	1.00 1.00	11.24 11.92
MOTA	2529	0	GLY	314	25.837	42.532 43.543	-0.658	1.00	12.52
MOTA	2530	N	ASP ASP	315 315	26.927 26.682	44.876	-0.145	1.00	13.51
ATOM	2531 2532	CA C	ASP	315	25.178	45.169	-0.126	1.00	11.36
MOTA MOTA	2533	0	ASP	315	24.643	45.674	0.871	1.00	12.03
MOTA	2534	СВ	ASP	315	27.367	45.918	-1.023	1.00	18.60
ATOM	2535	CG	ASP	315	28.845	46.015	-0.671	1.00	23.51
MOTA	2536	CD1	ASP	315	29.308	45.275	0.214	1.00	34.09
ATOM	2537	OD2	ASP	315	29.448	46.876	-1.358	1.00	38.29 10.83
MOTA	2538	N	TYR	316	24.538	44.902	-1.265 -1.383	1.00	9.46
MOTA	2539	CA	TYR	316 316	23.095 22.621	45.065 44.578	-2.740	1.00	9.26
ATOM	2540	CB CG	TYR TYR	316	21.130	44.397	-2.840	1.00	8.60
MOTA MOTA	2541 2542	CD1	TYR	316	20.273	45.477	-3.037	1.00	8.34
ATOM	2542	CE1	TYR	316	18.913	45.293	-3.143	1.00	7.74
ATOM	2544	CD2	TYR	316	20.585	43.119	-2.768	1.00	7.91
ATOM	2545	CE2	TYR	316	19.210	42.953	-2.847	1.00	7.88
ATOM	2546	CZ	TYR	316	18.381	44.028	-3.021 -3.101	1.00	7.84
MOTA	2547	ОН	TYR	316	17.021	43.799	-3.101 -0.260	1.00 1.00	8.21 8.23
ATOM	2548	c	TYR	316 316	22.328 21.435	44.386 44.940	0.393	1.00	8.68
ATOM	2549	o N	. TYR LEU	316	22.637	43.104	-0.045	1.00	8.47
ATOM ATOM	2550 2551	CA	LEU	317	21.902	42.282	0.915	1.00	8.58
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ATOM	2552	СВ	LEU	317	22.285	40.787	0.743	1.00	8.79
ATOM	2553	CG	LEU	317	21.561	39.779	1.629	1.00	8.20
ATOM	2554	CD1	LEU	317	20.073	39.788	1.272	1.00	9.81
ATOM	2555	CD2	LEU	317	22.141	38.375	1.492	1.00	10.08
ATOM	2556	C	LEU	317	22.107	42.735	2.352	1.00	8.90
ATCM	2557	0	LEU	317 318	21.144 23.362	42.841 42.918	3.087 2.770	1.00 1.00	9.53 10.62
ATCM ATCM	2558 2559	N CA	GLN GLN	318	23.615	43.262	4.185	1.00	12.66
ATOM	2560	CB	GLN	318	25.124	43.337	4.464	1.00	14.04
ATOM	2561	CG	GLN	318	25.445	43.620	5.905	1.00	19.74
ATOM	2562	CD	GLN	318	26.927	43.890	6.154	1.00	23.96
ATOM	2563	OE1	GLN	318	27.714	44.211	5.249	1.00	35.18
ATOM	2564	NE2	GLN	318	27.322	43.856	7.426	1.00	29.80
ATOM	2565	C	GLN	318	22.915	44.561	4.553	1.00	12.86
ATOM	2566	0	GLN	318	22.198	44.673	5.560	1.00	15.11
MOTA	2567	N	ASN	319	23.013	45.524	3.641	1.00	12.55
ATOM	2568	CA	ASN	319	22.346 23.012	46.806 47.860	3.917 3.043	1.00 1.00	14.03 20.38
ATOM	2569 2570	CB CB	asn Asn	319 319	24.469	48.100	3.472	1.00	27.04
ATOM ATOM	2571	OD1	ASN	319	24.837	48.041	4.669	1.00	36.52
ATOM	2572	ND2	ASN	319	25.310	48.297	2.465	1.00	38.86
ATOM	2573	С	ASN	319	20.844	46.703	3.764	1.00	11.80
ATOM	2574	0	ASN	319	20.143	47.296	4.593	1.00	11.96
ATOM	2575	N	GLY	320	20.312	45.946	2.806	1.00	9.58
MOTA	2576	CA	GLY	320	18.902	45.829	2.624	1.00	9.89
ATOM	2577	С	GLY	320	18.179	45.194	3.797	1.00	9.39
MOTA	2578	0	GLY	320	17.091	45.598	4.167	1.00	10.40
ATOM	2579	N	LEU	321	18.797	44.151	4.363	1.00	9.14
ATOM	2580	CA	LEU	321	18.153	43.464	5.485 5.768	1.00 1.00	9.96 10.64
ATOM ATOM	2581 2582	CB CG	LEU LEU	321 321	18.857 18.723	41.078	4.638	1.00	10.47
ATOM	2583	CD1	LEU	321	19.399	39.826	5.109	1.00	15.39
ATOM	2584	CD2	ĻEU	321	17.262	40.824	4.233	1.00	12.12
ATOM	2585	С	LEU	321	18.108	44.339	6.710	1.00	10.07
ATOM	2586	0	LEU	321	17.089	44.340	7.437	1.00	10.21
ATOM	2587	N	VAL	322	19.176	45.095	6.956	1.00	10.17
ATOM	2588	CA	VAL	322	19.146	46.035	8.069	1.00	11.92
ATOM	2589	CB	VAL	322	20.532	46.687	8.252	1.00	14.76
ATOM	2590	CG1	VAL	322	20.397	47.770	9.346	1.00	20.10
ATOM	2591	CG2	VAL	322 322	21.537 18.095	45.651 47.100	8.753 7.854	1.00 1.00	21.00 10.68
ATOM	2592 2593	с 0	VAL VAL	322	17.346	47.521	8.741	1.00	12.21
ATOM ATOM	2594	И	SER	323	18.014	47.617	6.634	1.00	11.81
ATOM	2595	CA	SER	323	17.069	48.683	6.345	1.00	11.28
ATOM	2596	СВ	SER	323	17.295	49.233	4.922	1.00	14.31
ATOM	2597	OG	SER	323	18.592	49.829	4.835	1.00	19.95
ATOM	2598	C	SER	323	15.625	48.220	6.522	1.00	11.18
MOTA	2599	0	SER	323	14.776	48.982	6.976	1.00	12.09
ATOM	2600	N	LEU	324	15.345	46.979	6.128	1.00	11.02
ATOM	2601	CA	LEU	324	13.986	46.458	6.212	1.00	9.92
ATOM	2602	CB	LEU	324	13.893 12.522	45.156 44.506	5.430 5.348	1.00 1.00	9.96 9.98
ATOM ATOM	2603 2604	CG CD1	LEU	324 324	11.448	45.393	4.776	1.00	11.33
ATOM	2605	CD2	LEU	324	12.658	43.214	4.571	1.00	11.39
ATOM	2606	C	LEU	324	13.576	46.326	7.679	1.00	10.28
ATOM	2607	ō	LEU	324	12.422	46.540	8.070	1.00	10.32
MOTA	2608	N	ILE	325	14.532	45.886	8.497	1.00	10.22
ATOM	2609	CA	ILE	325	14.292	45.805	9.939	1.00	11.04
ATOM	2610	CB	ILE	325	15.451	45.120	10.669	1.00	10.87
ATOM .	2611	CG2	ILE	325	15.398	45.298	12.164	1.00	13.93
ATOM	2612	CG1	ILE	325	15.454	43.605	10.363	1.00	12.46
MOTA	2613	CD1	ILE	325	16.785	42.944	10.725	1.00	15.56
ATOM	2614	C	ILE	325 325	14.040 13.122	47.192 47.404	10.522 11.341	1.00 1.00	10.74 11.60
ATOM	2615	И	ILE ASN	325	14.819	48.181	10.151	1.00	10.99
ATOM ATOM	2616 2617	CA	ASN	326	14.602	49.531	10.659	1.00	12.82
ATOM	2618	СВ	ASN	326	15.732	50.459	10.168	1.00	14.29
ATOM	2619	CG	ASN	326	17.014	50.101	10.904	1.00	17.21
ATOM	2620	OD1	ASN	326	16.959	49.382	11.917	1.00	23.79
ATOM	2621	ND2	ASN	326	18.130	50.520	10.318	1.00	22.06
MOTA	2622	C.	ASN	326	13.265	50.066	10.203	1.00	12.41
ATOM	2623	0	ASN	326	12.620	50.749	10.996	1.00	14.07
MOTA	2624	И	LYS	327	12.840	49.790	8.973	1.00	11.71

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MOTA	2625	CΛ	LYS	327	11.586	50.307	8.468	1.00	12.41
MCTA	2626	СВ	LYS	327	11.543	50.205	6.918	1.00	13.45
MCTA	2627	CG	LYS	327	10.362	50.865	6.259	1.00	18.26
ATOM	2628	CD	LYS	327	9.847	50.144	5.014	1.00	21.08
ATOM	2629	CE	LYS	327	8.605	50.768	4.423	1.00	21.51
ATOM	2630	NZ	LYS	327	7.335	50.650	5.211	1.00	17.68
ATOM	2631	С	LYS	327	10.349	49.653	9.067	1.00	11.15
MOTA	2632	0	LYS	327	9.389	50.327	9.506	1.00	12.52
MOTA	2633	N	ASN	328	10.358	48.303	8.990	1.00	10.58
MOTA	2634	CA	ASN	328	9.160	47.510	9.286	1.00	11.33
ATOM	2635	CB	ASN	328	8.762	46.614	8.084	1.00	14.02
MOTA	2636	CG	ASN	328	8.096	47.438	7.002	1.00	14.11
MOTA	2637	OD1	ASN	328	7.997	48.681	7.112	1.00	16.02
MOTA	2638	ND2	ASN	328	7.525	46.796	5.995	1.00	11.03
MOTA	2639	С	ASN	326	9.224	46.671	10.551	1.00	11.26
MOTA	2640	0	ASN	328	8.226	45.994	10.873	1.00	13.57
MOTA	2641	N	GLY	329	10.341	46.732	11.270	1.00	12.34
ATCM	2642	CA	GLY	329	10.445	46.076	12.554	1.00	12.29
ATCM	2643	C	GLY	329	11.146	44.739	12.523 11.517	1.00	11.30 11.94
ATCM	2644	0	GLY	329	11.221	44.056	13.668	1.00	11.96
ATOM	2645	N	GLN	330	11.716	44.359	13.787	1.00	10.55
ATOM	2646	CA	GLN	330	12.364	43.036	15.072	1.00	11.32
ATCM	2647	CB	GLN	330	13.193 13.686	42.950 41.560	15.352	1.00	11.79
ATCM	2648	CG	GLN	330	14.755	41.131	14.371	1.00	10.04
ATOM	2649	CD	GLN	330 330	15.804	41.744	14.168	1.00	13.20
ATOM	2650	OE1 NE2	GLN GLN	330	14.469	40.024	13.733	1.00	11.43
ATOM	2651	C	GLN	330	11.291	41.961	13.747	1.00	10.94
ATOM.	2652 2653	0	GLN	330	10.401	41.952	14.592	1.00	12.29
ATOM ATOM	2654	N	THR	331	11.377	41.063	12.784	1.00	9.93
ATOM	2655	CA	THR	331	10.438	39.956	12.692	1.00	10.56
ATOM	2656	CB	THR	331	10.367	39.375	11.277	1.00	13.12
ATOM	2657	OG1	THR	331	11.627	38.829	10.872	1.00	14.79
ATOM	2658	CG2	THR	331	9.945	40.455	10.274	1.00	18.32
ATOM	2659	C	THR	331	10.801	38.843	13.669	1.00	9.68
ATOM	2660	ō	THR	331	9.996	37.874	13.694	1.00	10.45
ATOM	2661	OT	THR	331	11.803	38.971	14.419	1.00	9.25
ATOM	2662	OW	WAT	333	9.679	28.766	-0.715	1.00	6.49
ATOM	2663	OW	WAT	334	19.171	27.783	10.936	1.00	7.24
ATOM	2664	OW	WAT	335	9.260	43.735	-4.195	1.00	8.08
MOTA	2665	OW	WAT	336	22.532	31.208	2.029	1.00	6.26
ATOM	2666	OW	WAT	337	28.595	34.041 -	1.151	1.00	7.97
ATOM	2667	OW	WAT	338	24.607	26.075	6.861	1.00	8.47
ATOM	2668	OW	WAT	339	-2.784	36.461	-0.561	1.00	8.55
ATOM	2669	CW	WAT	340	22.156	23.031	7.059	1.00	7.69
ATOM	2670	OW	WAT	341	14.777	39.110	1.828	1.00	8.58
ATOM	2671	OW	WAT	342	12.607	41.059	1.589	1.00	9.25
ATOM	2672	OW	WAT	343	-1.547	35.753	12.742	1.00	9.09
ATOM	2673	OM	WAT	344	15.859	16.926	12.366	1.00	8.72
ATOM	2674	OM	TAW	345	17.270	37.486	2.078	1.00	8.11
ATOM	2675	OW	WAT	346	3.657	33.965	-24.602	1.00	10.08
ATOM	2676	OM	WAT	347	25.532	21.232	-3.227	1.00	9.87
MOTA	2677	OW	WAT	348	-2.697	35.006	10.127	1.00	9.24
MOTA	2678	OM	TAW	349	-1.983	38.149	8.911	1.00	9.83
ATOM	2679	OW	WAT	350	2.708	25.709	10.377	1.00	10.06 10.39
ATOM	2680	OM	WAT	351	1.466	29.802	-2.581	1.00	
ATOM	2681	OW	WAT	352	1.694	36.486	5.140	1.00	10.21
ATOM	2682	OW	WAT	353	14.787	40.054	-27.891	1.00	11.32 11.49
ATOM	2683	OW	WAT	354	7.944	41.566	-10.080	1.00	
MOTA	2684	OW	WAT	355	10.898	19.364	-0.933 8.852	1.00	11.45 10.27
ATOM	2685	OW	WAT	356	11.246	44.075		1.00 1.00	12.14
MOTA	2686	OW	WAT	357	19.835	30.921	-23.876		10.92
ATOM	2687	OW	WAT	358	27.717	21.786	-4.790 -5.869	1.00 1.00	11.81
ATOM	2688	OW	WAT	359	25.375	32.089	-5.869 19.976	1.00	10.99
ATOM	2689	OW	WAT	360	7.719	32.045	8.252	1.00	10.33
ATOM	2690	OM	WAT	361	12.903	41.900	8.252 7.221	1.00	10.15
ATOM	2691	OM	WAT	362	15.465	41.811 17.857	1.029	1.00	12.37
MOTA	2692	OM	WAT	363 364	12.347 16.302	36.649	-24.739	1.00	10.86
MOTA	2693	OM	WAT WAT	365	10.865	30.651	24.027	1.00	12.28
MOTA	2694	OM.	WAT	366	19.416	33.418	-15.771	1.00	10.14
ATOM	2695	OW .	WAT	367	0.655	27.761	10.957	1.00	11.04
ATOM	2696 2697	0%	WAT	368	6.259	36.234	-3.794	1.00	11.14
ATCM	207/			200	2.232			- · · · ·	

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ATOM	2698	OW	WAT	369	16.675	14.973	9.695	1.00	11.88
ATCM	2699	WO	TAW	370	7.905	39.248	-11.909	1.00	10.25
ATOM	2700	0%	WAT	371	18.361	15.936	2.863	1.00	11.46 13.37
MOTA	2701	OM	WAT	372	21.892	19.503	1.831 23.230	1.00 1.00	11.13
ATOM	2702	OM	WAT	373	7.417	33.809 18.255	-4.039	1.00	13.47
MOTA	2703	OM.	WAT	374 375	9.301 5.788	38.293	-2.097	1.00	12.75
ATOM	2704	0% 0%	WAT WAT	376	21.318	28.084	18.230	1.00	13.18
ATOM	2705 2706	OM	TAW	377	5.087	41.215	-22.821	1.00	13.37
MOTA MOTA	2707	OW	WAT	378	24.969	23.273	6.991	1.00	13.42
ATOM	2708	OW	WAT	379	11.227	49.320	-8.022	1.00	13.43
ATOM	2709	OW	WAT	380	-7.291	29.246	11.626	1.00	13.60
ATOM	2710	OW	WAT	381	5.640	46.235	9.550	1.00	13.85
ATOM	2711	OW	TAW	382	8.978	35.948	12.107	1.00	11.77 15.24
MOTA	2712	OM	TAW	383	6.906	29.370	22.628 20.724	1.00 1.00	14.52
ATOM	2713	OW	WAT	384	9.627	19.425 39.497	8.314	1.00	14.01
MOTA	2714	OW.	WAT	385 386	16.459 24.545	45.847	-10.066	1.00	13.62
ATOM	2715	OW WO	WAT WAT	387	-0.150	40.151	13.142	1.00	15.04
ATOM	2716 2717	OW	WAT	388	17.528	29.411	-23.847	1.00	12.67
MOTA MOTA	2718	OW	WAT	389	11.478	50.549	-25.585	1.00	14.89
MOTA	2719	OW	WAT	390	13.559	40.717	10.705	1.00	15.14
ATOM	2720	OW	WAT	391	8.290	18.854	-0.320	1.00	13.16
ATOM	2721	OW	WAT	392	18.743	43.137	-23.378	1.00	13.36
ATOM	2722	OM	WAT	393	-0.660	20.811	-4.126	1.00 1.00	14.45 13.51
MOTA	2723	OM	WAT	394	11.073	48.625	1.433 -11.200	1.00	16.03
ATOM	2724	OM	WAT	395	21.541 -9.012	28.028 33.285	2.180	1.00	13.36
MOTA	2725	OM	TAW TAW	396 397	-5.012	37.842	-7.595	1.00	14.72
ATOM	2726 2727	OM OM	WAT	398	7.685	39.106	-0.476	1.00	13.04
ATOM ATOM	2728	OW	WAT	399	-2.609	52.730	2.926	1.00	15.18
ATOM	2729	OW	WAT	400	31.148	33.765	-2.024	1.00	15.90
ATOM	2730	OW	WAT	401	28.412	25.681	-6.948	1.00	14.37
ATOM	2731	OW	WAT	402	-7.837	33.960	-2.251	1.00	16.42
MOTA	2732	OW	WAT	403	27.733	30.817	11.858 -0.111	1.00 1.00	16.15 15.84
ATOM	2733	OW	TAW	404	20.345	47.455 46.885	-13.836	1.00	15.47
ATOM	2734	OW.	WAT WAT	405 406	7.740 -6.948	43.028	7.219	1.00	13.61
ATOM	2735 2736	OW	WAT	407	-1.255	31.160	-1.492	1.00	15.03
ATOM ATOM	2737	OW	WAT	408	-7.351	47.298	1.758	1.00	16.16
ATOM	2738	OW	TAW	409	0.600	50.511	3.412	1.00	16.57
MOTA	2739	OW	WAT	410	19.491	38.870	14.832	1.00	13.70
ATOM	2740	OM	WAT	411	19.032	29.394	25.238	1.00	13.82
MOTA	2741	WO	WAT	412	1.566	19.249	-3.495	1.00 1.00	12.61 17.83
MOTA	2742	OW	WAT	413	1.396	29.458 13.760	-19.005 6.156	1.00	16.00
MOTA	2743	OM	WAT	414	12.993 -3.489	25.740	2.588	1.00	14.57
MOTA	2744	OW	WAT WAT	415 416	20.400	16.258	4.749	1.00	15.12
ATOM	2745 2746	OW	WAT	417	8.420	43.590	-11.863	1.00	15.17
ATOM ATOM	2747	OW	WAT	418	23.155	21.243	-4.704	1.00	15.01
ATOM	2748	OW	WAT	419	13.407	49.512	-6.246	1.00	18.08
ATOM	2749	OW	WAT	420	2.293	43.872	-19.188	1.00	15.75
ATOM	2750	OW	WAT	421	16.464	23.984	-12.729	1.00	16.55
ATOM	2751	OW	WAT	422	18.051	18.401	13.304	1.00	16.18 16.03
ATOM	2752	OM	WAT	423	2.749	32.610	17.294	1.00 1.00	16.60
MOTA	2753	OW	TAW	424	3.167	43.048	-21.870 20.156	1.00	16.00
MOTA	2754	OW	WAT	425	1.729 24.912	36.092 30.437	18.039	1.00	18.10
MOTA	2755	OM	WAT WAT	426 427	1.661	37.179	-17.778	1.00	16.68
ATOM	2756	OM OM	WAT	428	8.377	48.751	-17.456	1.00	17.96
ATOM	· 2757 2758	OM	WAT	429	4.193	48.686	-6.577	1.00	16.18
MOTA MOTA	2759	OM	WAT	430	32.183	20.100	4.650	1.00	17.47
ATOM	2760	OW	WAT	431	10.701	20.889	-9.309	1.00	17.06
ATOM	2761	OW	WAT	432	1.230	36.624	-21.785	1.00	16.21
ATOM	2762	OM	WAT	433	23.224	53.219	-9.124	1.00	16.77
ATOM	2763	OW	WAT	434	7.454	14.204	-2.641	1.00	19.16
MOTA	2764	OM	WAT	435	-3.493	18.204	-1.008	1.00 1.00	16.26 16.44
ATCM	2765	WO	WAT	436	28.871	35.527	-9.186 -4.440	1.00	20.15
ATOM	2766	OW.	WAT	437	28.827	47.359 24.748	-15.541	1.00	18.41
ATOM	2767	OM WO	WAT WAT	438 439	16.179 24.130	23.189	10.125	1.00	15.71
MOTA	2768 2769	WO WO	WAT	440	9.413	18.353	13.315	1.00	22.18
ATOM ATOM	2769	OW	WAT	441	8.848	18.233	10.527	1.00	19.65
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MOTA	2771	OW	WAT	442	26.464	32.534	18.217	1.00	16.18
	2772		WAT	443	-7.877	38.342	4.061	1.00	17.91
ATOM		OM				34.080	10.130	1.00	14.21
ATOM	2773	OM	WAT	444	12.963			1.00	
ATOM	2774	OM	TAW	445	5.117	27.600	16.871		17.53
ATOM	2775	OW	WAT	446	-9.839	37.847	2.096	1.00	20.90
ATOM	2776	OW	WAT	447	-1.745	32.409	3.793	1.00	20.56
		OW	WAT	448	8.416	36.915	9.538	1.00	19.37
ATOM	2777						0.805	1.00	15.63
ATOM	2778	OW	WAT	449	13.442	46.906			
ATOM	2779	OM	WAT	450	4.457	30.452	20.352	1.00	16.16
ATOM	2780	OW	WAT	451	8.792	16.265	-0.627	1.00	17.14
ATOM	2781	OW	WAT	452	-0.356	37.156	21.516	1.00	17.26
			WAT	453	11.477	23.152	-22.757	1.00	21.00
MOTA	2782	OM					24.676	1.00	18.12
MOTA	2783	OM	WAT	454	21.490	29.901			
MOTA	2784	OW	TAW	455	-9.438	38.109	10.367	1.00	20.23
MOTA	2785	OW	TAW	456	0.801	21.803	-6.497	1.00	16.76
ATOM	2786	OW	TAW	457	19.962	49.749	-14.695	1.00	19.53
			WAT	458	15.665	20.950	19.711	1.00	20.63
MOTA	2787	OW						1.00	18.83
MOTA	2788	OM	WAT	459	22.253	42.588	7.507		
ATOM	2789	OW	WAT	460	1.091	15.140	-0.991	1.00	17.62
MOTA	2790	OW	WAT	461	15.096	47.428	-1.171	1.00	18.28
		OW	WAT	462	9.229	16.847	19.798	1.00	19.90
MOTA	2791					31.087	12.465	1.00	20.21
MOTA	2792	OW	WAT	463	23.458		9.231	1.00	20.21
ATOM	2793	OW	WAT	464	19.997	42.399			
ATOM	2794	OW	WAT	465	-1.338	22.340	-1.994	1.00	18.86
ATOM	2795	OW	WAT	466	3.252	20.298	-7.395	1.00	20.44
		OW	WAT	467	13.042	53.167	-27.095	1.00	19.91
MOTA	2796					37.955	15.133	1.00	20.65
MOTA	2797	OM	WAT	468	-10.643				
ATOM	2798	OM	WAT	469	13.185	21.680	-8.488	1.00	20.52
ATOM	2799	OW	WAT	470	10.293	15.611	9.484	1.00	17.30
MOTA	2800	OW	WAT	471	18.301	39.511	-27.728	1.00	15.98
		OW	WAT	472	30.497	24.989	-0.891	1.00	18.92
MOTA	2801					27.545	11.353	1.00	20.62
ATOM	2802	OW	WAT	473	34.106				21.04
MOTA	2803	OW	WAT	474	-1.263	34.235	-1.003	1.00	
ATOM	2804	OW	WAT	475	30.740	34.281	8.033	1.00	22.42
ATOM	2805	OW	WAT	476	17.888	47.600	-24.851	1.00	19.76
	2806	OW	WAT	477	19.023	45.815	-22.920	1.00	19.37
MOTA				478	5.376	27.996	-23.488	1.00	23.73
MOTA	2807	OW	WAT				13.239	1.00	19.22
MOTA	2808	OW	WAT	479	18.268	40.811			
ATOM	2809	OM	WAT	480	-4.271	44.290	-11.498	1.00	18.91
ATOM	2810	OW	WAT	481	-10.443	35.240	1.254	1.00	19.73
MOTA	2811	OW	WAT	482	2.681	33.500	20.144	1.00	19.18
			WAT	483	19.770	15.947	12.144	1.00	20.32
MOTA	2812	OW					7.499	1.00	21.46
ATOM	2813	OM	WAT	484	4.713	13.467			
ATOM	2814	OW	WAT	485	-8.355	31.805	-0.398	1.00	23.32
ATOM	2815	OW	WAT	486	15.331	47.230	2.640	1.00	18.04
MOTA	2816	OW	WAT	487	25.206	36.975	8.919	1.00	23.97
			WAT	488	2.787	39.754	14.409	1.00	18.16
MOTA	2817	OW				46.924	-9.024	1.00	21.20
MOTA	2818	OM	WAT	489	2.364				
MOTA	2819	WO	WAT	490	18.912	42.320	-26.268	1.00	19.59
MOTA	2820	OW	WAT	491	9.332	14.150	-7.989	1.00	22.28
	2821	OW	WAT	492	3.716	51.522	-5.917	1.00	20.14
MOTA			WAT	493	30.485	19.369	6.691	1.00	22.71
MOTA	2822	OW					7.529	1.00	21.63
MOTA	2823	OM	WAT	494	-8.748	45.801			21.66
ATOM	2824	OM	WAT	495	11.868	16.205	-2.683	1.00	
MOTA	2825	OW	WAT	496	13.346	35.997	8.497	1.00	19.24
ATOM	2826	OW	WAT	497	0.972	40.899	-13.028	1.00	21.95
			WAT	498	4.183	53.535	-1.459	1.00	28.32
ATOM	2827	OM			30.346	39.016	-10.546	1.00	20.11
MOTA	2828	OW	WAT	499					25.21
ATOM	2829	OW	TAW	500	16.129	24.513	-19.240	1.00	
ATOM	2830	OM	WAT	501	10.923	41.632	17.779	1.00	28.12
ATOM	2831	OW	WAT	502	18.809	24.865	-19.164	1.00	22.89
			WAT	503	16.648	14.113	0.751	1.00	19.20
ATOM	2832	OW				39.701	8.979	1.00	20.79
MOTA	2833	OM	WAT	504	19.213				20.81
ATOM	2834	OM	WAT	505	24.711	56.540	-10.148	1.00	
ATOM	2835	OW	WAT	506	22.101	29.548	-23.677	1.00	22.77
ATOM	2836	OW	WAT	507	21.631	41.072	20.961	1.00	24.26
			TAW	508	-3.925	32.996	-15.355	1.00	25.98
MOTA	2837	OM			-3.683	27.982	6.567	1.00	23.91
ATOM	2838	OM	WAT	509			15.189	1.00	24.78
MOTA	2839	OM	WAT	510	22.548	22.934			
MOTA	2840	OM	WAT	511	3.233	21.643	-9.764	1.00	21.05
ATOM	2841	OW	WAT	512	33.443	23.225	2.328	1.00	24.54
ATOM	2842	OW	WAT	513	24.602	43.728	-18.078	1.00	25.43
			WAT	514	16.686	43.816	15.797	1.00	22.61
MOTA	2843	OM	WWI	214	10.000	43.010			

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MOTA	2844	OW	WAT	515	10.964	18.976	-6.714	1.00	26.05
ATOM	2845	OW	WAT	516	0.840	16.582	-3.289	1.00	22.32
ATOM	2846	OW	WAT	517	-3.923	22.464	-1.744	1.00	29.01
ATOM	2847	OM	TAW	518	-0.997	25.906	9.408	1.00	27.67
MOTA	2848	OM	TAW	519	3.066	45.067	-23.581	1.00	21.23
MOTA	2849	OM	WAT	520	20.631	16.301	16.915	1.00 1.00	29.84 29.99
MOTA	2850	OW	WAT	521	3.683	28.042 27.757	-20.317 3.844	1.00	23.89
MOTA	2851	OW.	WAT WAT	522 523	-7.926 1.150	23.857	-9.846	1.00	21.74
ATOM	2852 2853	OW	WAT	524	13.889	16.199	-5.074	1.00	22.55
MOTA MOTA	2854	OW	WAT	525	-1.704	53.692	-2.952	1.00	32.09
ATOM	2855	OW	WAT	526	30.576	35.496	-4.718	1.00	26.56
ATOM	2856	OW	WAT	527	7.959	27.774	-32.333	1.00	22.85
ATOM	2857	OW	WAT	528	0.310	39.649	-17.650	1.00	26.17
MOTA	2858	OW	WAT	529	-0.573	40.681	-15.285	1.00	24.02
MOTA	2859	OW	WAT	530	-5.413	37.314	-11.579	1.00	26.13
ATOM	2860	OM	WAT	531	20.453	25.296	-22.221 -5.046	1.00 1.00	26.01 27.90
MOTA	2861	OW	WAT	532	2.287 30.000	15.472 42.526	-1.756	1.00	25.99
MOTA	2862	OW	WAT WAT	533 534	13.014	48.338	13.867	1.00	29.93
ATOM	2863 2864	OM OM	WAT	535	19.089	59.470	-16.490	1.00	25.60
MOTA MOTA	2865	OW	WAT	536	23.246	37.608	-22.518	1.00	30.37
ATOM	2866	OW	WAT	537	18.012	23.775	-22.832	1.00	35.14
ATOM	2867	OW	WAT	538	32.942	31.103	-1.587	1.00	27.55
ATOM	2868	OW	WAT	539	24.244	39.395	8.376	1.00	26.84
MOTA	2869	OM	WAT	540	16.151	39.516	11.126	1.00	27.39
ATOM	2870	OW	WAT	541	-9.496	38.640	6.232 -24.197	1.00 1.00	23.00 25.04
ATOM	2871	OW	WAT	542	11.570	53.681 39.623	9.901	1.00	24.86
ATOM	2872	OW	WAT WAT	543 544	5.652 15.243	51.336	-7.590	1.00	31.58
MOTA	2873 2874	OM OM	WAT	545	21.732	45.731	-22.796	1.00	25.40
ATOM ATOM	2875	OW	WAT	545	26.109	29.562	15.747	1.00	26.48
ATOM	2876	OW	WAT	547	5.300	48.774	10.712	1.00	22.97
ATOM	2877	OW	TAW	548	16.333	19.082	-6.041	1.00	31.87
ATOM	2878	OW	TAW	549	34.477	39.693	-0.433	1.00	24.27
ATOM	2879	OW	TAW	550	32.307	28.802	-2.454	1.00	28.07
ATOM	2880	OW	TAW	551	16.750	23.348	20.119	1.00 1.00	30.93 30.02
ATOM	2881	OW	TAW	552	19.254 7.615	45.692 43.287	25.110 12.031	1.00	31.35
MOTA	2882	OW.	TAW TAW	553 554	21.139	41.273	15.275	1.00	24.54
ATOM	2883 2884	OW WO	WAT	555	-9.531	43.159	1.000	1.00	28.18
MOTA MOTA	2885	OW	WAT	556	-4.562	35.560	22.961	1.00	25.96
ATOM	2886	OW	WAT	557	19.748	24.192	-10.428	1.00	29.93
ATOM	2887	OW	WAT	558	10.358	13.845	7.421	1.00	24.97
ATOM	2888	OW	WAT	559	33.144	26.300	-1.473	1.00	23.51
MOTA	2889	OW	WAT	560	0.711	42.085	-22.328	1.00	27.47
MOTA	2890	OW	WAT	561	19.258	55.289	-14.564	1.00 1.00	25.35 27.95
MOTA	2891	OW	WAT	562	13.683 21.974	49.398 39.944	-2.033 7.537	1.00	24.21
MOTA	2892	OW	WAT WAT	563 564	14.094	24.261	-29.685	1.00	30.81
ATOM	2893	OW	WAT	565	8.391	16.742	16.583	1.00	33.63
MOTA MOTA	2894 2895	OW	WAT	566	34.902	40.206	3.922	1.00	34.D9
ATOM	2896	OW	WAT	567	7.246	39.309	7.727	1.00	25.05
ATOM	2897	OW	WAT	568	1.772	52.043	-7.936	1.00	33.11
ATOM	2898	OW	WAT	569	-10.176	35.406	-1.420	1.00	28.71
MOTA	2899	OM	WAT	570	19.034	21.727	-6.972	1.00	31.14 29.45
ATOM	2900	OM	WAT	571	25.186	25.032	13.807 0.681	1.00 1.00	29.45
MOTA	2901	OM	WAT	572	-0.477 7.554	22.506 13.615	9.613	1.00	25.51
MOTA	2902	OW	WAT WAT	573 574	0.741	15.993	-6.797	1.00	28.22
ATOM	2903	OM. OM	WAT	575	4.524	26.932	19.683	1.00	30.25
MOTA	2904 2905	OW.	WAT	576	24.217	31.560	29.964	1.00	30.98
ATOM ATOM	2906	OW	WAT	577	-9.886	38.987	-0.391	1.00	30.58
ATOM	2907	OM	WAT	578	18.264	48.710	-5.256	1.00	26.25
ATOM	2908	WO	WAT	579	7.094	48.558	-19.857	1.00	30.55
ATOM	2909	OW	WAT	580	-11.403	38.772	12.578	1.00	23.49
ATOM	2910	OW	WAT	581	0.236	53.067	3.666	1.00	32.85
ATOM	2911	WO	WAT	582	34.494	30.211	11.953	1.00	30.38
MOTA	2912	WO	WAT	583	-8.883	40.085	8.563 -1.256	1.00 1.00	20.61 32.05
MOTA	2913	OW	WAT	584 505	19.648	16.274 53.240	6.163	1.00	28.48
ATOM	2914	WO WO	WAT	585 586	0.789 6.772	16.061	19.133	1.00	28.67
MOTA	2915	WO WO	WAT WAT	587	17.572	48.350	-0.455	1.00	31.70
ATOM	2916	OM	1471	201	21.316				_

ATOM	2917	OW	TAW	588	19.914	42.743	12.082	1.00	29.47
	2918	OW	WAT	589	28.293	43.359	3.095	1.00	41.10
MOTA	2919	OW	WAT	590	4.140	16.905	-6.015	1.00	33.04
ATOM			WAT	591	-7.536	49.473	0.700	1.00	26.21
MOTA	2920	OW				11.527	7.703	1.00	35.77
MOTA	2921	OW	TAW	592	16.545		-18.455	1.00	36.98
ATOM	2922	OM	WAT	593	21.751	26.587			
ATOM	2923	OM	TAW	594	28.027	36.486	9.408	1.00	30.24
ATOM	2924	OM	TAW	595	-3.668	27.781	16.465	1.00	32.59
MOTA	2925	OW	WAT	596	6.641	50.716	9.132	1.00	30.57
ATOM	2926	OW	WAT	597	14.904	54.419	-12.497	1.00	35.34
ATOM	2927	OW	WAT	598	13.687	41.518	18.737	1.00	28.20
	2928	OW	WAT	599	15.809	10.449	13.628	1.00	27.51
MOTA			WAT	600	0.266	35.585	-19.094	1.00	32.22
MOTA	2929	OW				32.250	-2.186	1.00	31.93
ATOM	2930	OM	WAT	601	1.157			1.00	38.78
MOTA	2931	OM	WAT	602	20.830	54.594	-22.978		
ATOM	2932	OW	WAT	603	-6.482	24.335	0.209	1.00	27.40
ATOM	2933	OW	WAT	604	-0.221	24.757	-19.652	1.00	34.87
MOTA	2934	OW	WAT	605	4.475	41.359	13.507	1.00	38.95
ATOM	2935	OW	WAT	606	18.365	17.118	-5.002	1.00	35.63
MOTA	2936	OW	WAT	607	10.129	37.103	7.607	1.00	37.59
		OW	WAT	608	32.483	26.313	-6.257	1.00	34.83
MOTA	2937		WAT	609	1.173	18.896	13.815	1.00	38.79
MOTA	2938	ÖM			21.714	21.650	-7.187	1.00	30.79
MOTA	2939	OM	TAW	610				1.00	38.22
ATOM	2940	OM	WAT	611	16.630	13.196	3.673		30.36
ATOM	2941	OW	WAT	612	3.332	18.798	15.551	1.00	
ATOM	2942	OM	WAT	613	11.410	46.061	15.908	1.00	30.96
ATOM	2943	OW	WAT	614	1.890	53.075	0.396	1.00	35.43
MOTA	2944	OW	WAT	615	14.858	54.460	-19.563	1.00	36.48
MOTA	2945	OW	WAT	616	27.164	22.302	9.178	1.00	28.96
	2946	OW	WAT	617	25.844	30.643	13.373	1.00	37.70
MOTA		OM	WAT	618	-11.773	30.992	19.536	1.00	35.27
ATOM	2947				20.068	54.715	-26.556	1.00	30.61
ATOM	. 2948	OM	WAT	619			18.055	1.00	39.02
ATOM	2949	OM	TAW	620	22.511	25.529		1.00	29.70
MOTA	2950	OM	WAT	621	4.762	24.578	19.147		
MOTA	2951	OM	WAT	622	-5.809	31.212	-7.251	1.00	38.52
MOTA	2952	OW	WAT	623	2.302	46.734	-19.134	1.00	31.35
ATOM	2953	OW	TAW	624	-3.267	26.845	-9.657	1.00	26.55
ATOM	2954	WO	WAT	625	20.942	19.909	15.987	1.00	30.93
	2955	0%	WAT	626	14.335	19.417	27.897	1.00	41.36
MOTA			WAT	627	-8.960	44.991	2.623	1.00	32.33
MOTA	2956	OM			-2.896	18.495	3.945	1.00	33.15
MOTA	2957	OM	WAT	628		15.066	19.313	1.00	41.85
MOTA	2958	OM	WAT	629	19.081			1.00	53.36
MOTA	2959	OM	WAT	630	26.583	40.965	-16.598		
ATOM	2960	OM	WAT	631	9.201	30.845	-29.283	1.00	26.67
ATOM	2961	OW	WAT	632	29.771	29.232	13.030	1.00	37.22
MOTA	2962	WO	WAT	633	-9.063	44.258	5.485	1.00	30.64
ATOM	2963	OW	WAT	634	36.469	24.114	2.218	1.00	34.07
	2964	OW	WAT	635	1.658	28.923	20.644	1.00	39.44
ATOM		OM OH	WAT	636	-8.637	37.196	-3.769	1.00	39.41
MOTA	2965			637	9.491	43.672	18.552	1.00	34.67
ATOM	2966	OW	TAW			24.948	5.405	1.00	37.88
MOTA	2967	OW	WAT	638	38.446		-12.437	1.00	35.82
MOTA	2968	OW	WAT	639	16.362	21.306			31.55
MOTA	2969	OW	TAW	640	11.407	51.004	-0.072	1.00	
ATOM	2970	OM	WAT	641	38.229	24.335	8.085	1.00	39.89
ATOM	2971	OW	WAT	642	21.655	26.806	22.131	1.00	32.81
ATOM	2972	OW	WAT	643	16.387	22.635	23.545	1.00	35.28
		OW	WAT	644	-12.122	42.861	-8.757	1.00	43.21
ATOM	2973		WAT	645	-1.768	30.006	19.108	1.00	39.03
MOTA	2974	OM		646	31.231	36.441	-7.964	1.00	40.74
MOTA	2975	WO	WAT			38.920	18.620	1.00	37.25
ATOM	2976	OW	WAT	647	-9.784			1.00	32.24
MOTA	2977	OM	WAT	648	-5.666	31.659	21.328		42.36
ATOM	2978	OW	TAW	649	-2.584	54.436	0.499	1.00	
MOTA	2979	OW	TAW	650	9.314	15.276	13.185	1.00	41.13
MOTA	2980	OW	WAT	651	20.108	12.329	9.346	1.00	30.57
	2981	OW	WAT	652	28.719	20.042	8.674	1.00	30.27
ATOM		OW	WAT	653	27.567	35.432	11.915	1.00	34.47
MOTA	2982		WAT	654	20.822	18.155	14.214	1.00	29.75
MOTA	2983	OM			-1.395	25.107	7.194	1.00	42.08
MOTA	2984	OW	WAT	655	-1.373	23.107			. – . – -
END									

 \overline{CO}_2 . C-3 exomethylene cephams with

hydrophobic side chains, e.g. R = PhCH₂, R = PhOCH₂,

 $R = HO_2C(CH_2)_4$

RCOHN

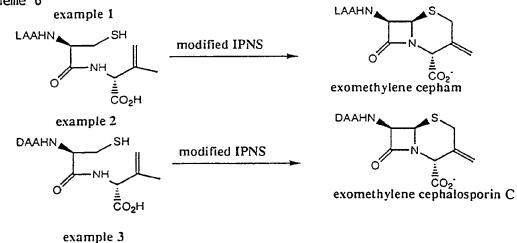
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7-aminocephalosporins

Scheme 5

where, R = alkyl or aryl or a combination of both, e.g. PHCH₂, PhOCH₂. The alkyl chain or aryl portion of R may also be substituted with acidic or basic groups, e.g. $R = HO_2C(CH_2)_4$, $R = H2N(CH_2)_4$. R may also be heterocyclic.

Scheme 6



N E CO2

Scheme 6 (cont.)

example 3 (cont.) The modified IPNS may be used in conjunction with another modified (or unmodified) enzyme activity, such as:

modified DAOCS or modified DACS or

modified DAOC/DACS or modified IPNS

where R = LAA, DAA or other.

Scheme 7

example 1

example 2

Scheme 8

example 1

example 2

Scheme 9

example 1

where, R = aryl, alkyl or a combination of both e.g. $PhCH_2$, $PhOCH_2$. If R is alkyl it may be substituted, e.g. $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$.

example 2

where, R = aryl, alkyl or a combination of both e.g. $PhCH_2$, $PhOCH_2$. If R is alkyl it may be substituted, e.g. $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$. $R = D-\delta-(\alpha-aminoadipoyl)$.

other cephalosporins

Scheme 10

examples

Scheme 11

example 1

where, $R = D-\delta-(\alpha-aminoadipoyl)$, $L-\delta-(\alpha-aminoadipoyl)$ $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$.

example 2

where, $R = D-\delta-(\alpha-aminoadipoyl)$, $D-\delta-(\alpha-aminoadipoyl)$ $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$, X = Cl, Br, I, OMe, SMe, or other substituent.

Scheme 13

example 1

example 2

where R = Cl, Br, I, OMe or other substituent.

Scheme 14

examples

where, R = aryl, alkyl or a combination of aryl and alkyl e.g. $PhCH_2$, $PhOCH_2$.

Scheme 12

example

other cephalosporins

Scheme 15

examples

Scheme 16 example 1

where, $R = D-\delta-(\alpha-aminoadipoyl)$, $L-\delta-(\alpha-aminoadipoyl)$ $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$.

example 2

where, $R = D-\delta-(\alpha-aminoadipoyl)$, $D-\delta-(\alpha-aminoadipoyl)$ $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$, X = Cl, Br, I, OMe, SMe, or other substituent.

Scheme 18

example 2

where R = Cl, Br, I, OMe or other substituent.

Scheme 19.

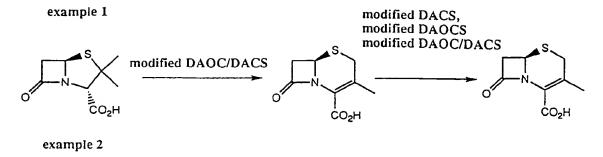
examples

where, R = aryl, alkyl or a combination of aryl and alkyl e.g. $PhCH_2$, $PhOCH_2$.

Scheme 17

example

Scheme 22



where R = Cl, Br, I, OMe or other substituent.

Scheme 23

examples

where, R = aryl, alkyl or a combination of aryl and alkyl e.g. $PhCH_2$, $PhOCH_2$.

Scheme 21 example

other cephalosporins

Scheme 24

examples

Scheme 20

example 1

where, $R = D-\delta-(\alpha-aminoadipoyl)$, $L-\delta-(\alpha-aminoadipoyl)$ $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$.

example 2

where, $R = D-\delta-(\alpha-aminoadipoyl)$, $D-\delta-(\alpha-aminoadipoyl)$ $HO_2C(CH_2)_4$ or $H_2N(CH_2)_4$, X = Cl, Br, I, OMe, SMe, or other substituent.

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CLAIMS

- 1. Isopenicillin N synthase (IPNS) in the form of: a complex with Mn having a structure designated by the X-ray co-ordinates in Table 2; or a complex with Fe and its substrate, said complex having a structure designated by the X-ray co-ordinates in Table 3.
- 2. Isopenicillin N synthase (IPNS) in the form of: a complex with

 Fe and an analogue of its substrate, either in the absence or in the

 presence of nitrous oxide or dioxygen, said complex having a structure

 designated by X-ray co-ordinates analogous to that set out in Table 3.
 - 3. Use of the three dimensional structure of a first enzyme selected from IPNS, DAOCS, DACS, DAOC/DACS and other related enzymes of the penicillin and cephalosporin biosynthesis pathway, for the modification of a second enzyme selected from IPNS, DAOCS, DACS, DAOC/DACS and other related enzymes of the penicillin and cephalosporin biosynthesis pathway.
- 4. Use as claimed in claim 3, wherein the second enzyme is modified to accept unnatural substrates for the preparation of antibacterial materials or intermediate for the production of pharmaceutical products.
 - 5. Use as claimed in claim 3, wherein the second enzyme is modified to produce unnatural products or improve the production of natural products.
- 25 6. An enzyme having significant (as herein defined) sequence similarity to IPNS, wherein at least one of the following amino acid residues is modified:

R287; R87; R88; Y189; S183; Y91; F285; Q330; T331; V185; L106; C104; V217; L324; L317; I325; L321; S210.

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15

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7. An enzyme having significant (as herein defined) sequence similarity to IPNS, wherein at least one of the following amino acid residues is modified:

V272; L231; L223; P283; T221; F211; F285; Q330;

- 5 I187; V185; Y189; R279; S281; N230; Q225; N252; S210.
 - 8. A gene which codes for the enzyme of claim 6 or claim 7.
 - 9. A micro-organism containing the gene of claim 8 and which is capable of expressing the gene under fermentation conditions.
 - 10. Use of the micro-organism of claim 9 for making a bicyclic β-lactam of the penicillin or cephalosporin (including cephams) families.
 - 11. Use of the enzyme of claim 6 or claim 7 for the preparation *in vitro* of a bicyclic β-lactam of the penicillin and cephalosporin families.
 - 12. In a method for the preparation of an enzyme, selected from IPNS, DAOCS, DACS, DAOC/DACS and sequence-related enzymes, in crystalline form for X-ray diffraction studies, the improvement which consists in maintaining the enzyme under anaerobic conditions with dioxygen substantially absent.
- 13. A method which comprises using the three dimensional structure of a first enzyme selected from IPNS, DAOCS, DACS,
 DAOC/DACS and other related enzymes of the penicillin and
 - cephalosporin biosynthesis pathway, for determining or predicting the structure of a second enzyme which is structurally related to the first enzyme but is not active in the penicillin or cephalosporin biosynthesis pathway, and using the structural information so obtained for modifying the second enzyme or for designing an inhibitor for the second enzyme.
 - 14. Use of the enzyme of claim 6 or claim 7 to convert a dipeptide to a 6- aminopenicillin or other bicyclic β-lactam.
 - 15. Use as claimed in claim 14, wherein the dipeptide has been produced by use of a peptide synthetase enzyme such as ACV synthetase optionally modified to optimise dipeptide production.

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(54) Title: ISOPENICILLIN N SYNTHETASE AND DEACETOXYCEPHALOSPORIN C SYNTHETASE ENZYMES AND METHODS

(57) Abstract

A three-dimensional structure is described of a complex of isopenicillin N synthase (IPNS) with Fe and its substrate ACV. This structure is used to design modified enzymes IPNS, DAOCS, DACS, DAOC/DACS and other related enzymes of the penicillin and cephalosporin biosynthesis pathway, which modified enzymes may accept unnatural substrates or improve production efficiency or produce improved products. Specific modifications of specific amino acid residues are proposed and exemplified.

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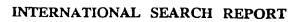
Inter anal Application No PCT/GB 97/02838

A. CLASSIFICATION OF SUBJECT MATTER 1PC 6 C12N15/52 C12 C12N9/00 C12P35/00 C12N1/21 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 C12N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Χ ROACH PL ET AL: "Crystal structure of 1 isopenicillin N synthase is the first from a new structural family of enzymes." NATURE 375 (6533) P700-4 JUN 22 1995. XP002059796 cited in the application see abstract; figures 1-3; table 1 Х SCOTT RA ET AL: "X-ray absorption 1,2 spectroscopic studies of the high-spin iron(II) active site of isopenicillin N synthase: evidence for Fe-S interaction in the enzyme-substrate complex." BIOCHEMISTRY 31 (19) P4596-601 MAY 19 1992, XP002067783 see the whole document -/--Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the investigation. "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-*O* document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled 'P' document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 3 0, 06, 98 11 June 1998 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Gurdjian, D Fax: (+31-70) 340-3016



Inter onal Application No PCT/GB 97/02838

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to the analysis of enzymic catalysis: reaction of delta-(L-alpha-aminoadipoyl)-L-cysteinyl-D -alpha-aminobutyrate and delta-(L-alpha-aminoadipoyl)-L-cysteinyl-D -allylglycine catalyzed by isopenicillin N synthase isozymes." BIOCHEMISTRY, JUN 6 1995, 34 (22) P7548-62, UNITED STATES, XP002067785 see the whole document HUFFMAN GW ET AL: "Substrate specificity of isopenicillin N synthase." J MED CHEM, MAY 15 1992, 35 (10) P1897-914, UNITED STATES, XP002067786 see the whole document DATABASE BIOTECHNOLOGY ABSTRACTS DERWENT ,LONDON aN 88-01715, PRATT A J: "Manipulation of beta-lactam biosynthetic enzymes" XP002067788 see abstract & ABSTR.PAP.AM.CHEM.SOC., 1987, EP 0 307 171 A (LILLY CO ELI) 15 March 1,2, 6-11,14, 15 EP 0 317 096 A (LILLY CO ELI) 24 May 1989 1,2,	X	ligation of the active site iron(II) of isopenicillin N synthase derives from substrate rather than endogenous cysteine: spectroscopic studies of site-specific Cys.fwdarw. Ser mutated enzymes" BIOCHEMISTRY (1992), 31(19), 4602-12 CODEN: BICHAW; ISSN: 0006-2960, XP002067784	1,2
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Inter anal Application No PCT/GB 97/02838

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KRIAUCIUNAS A ET AL: "The functional role of cysteines in isopenicillin N synthase. Correlation of cysteine reactivities toward sulfhydryl reagents with kinetic properties of cysteine mutants." J BIOL CHEM, JUN 25 1991, 266 (18) P11779-88, UNITED STATES, XP002060005 see abstract see page 11780, left-hand column, paragraph 3 see page 11782, right-hand column, line 12 - line 17	1,2, 6-11,14, 15
SAMI, MALKIT ET AL: "Glutamine-330 is not essential for activity in isopenicillin N synthase from Aspergillus nidulans" FEBS LETT. (1997), 405(2), 191-194 CODEN: FEBLAL; ISSN: 0014-5793, XP002059797 see the whole document	1,6-11, 14,15
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INTERNATIONAL SEARCH REPORT

Ir. national application No. PCT/GB 97/02838

BoxI	Observations where certain ciaims were found unserrobable (Oantham)
 	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This Inte	mational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Searoh oan be carried out, specifically:
	Claims Nos.: Decause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Intern	national Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. A	s all required additional search fees were timely paid by the applicant, this International Search Report covers all earchable claims.
2. As	s all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
	s only some of the required additional search fees were timely paid by the applicant, this International Search Report vers only those claims for which fees were paid, specifically claims Nos.: 2 6-11 14 15
4. No	required additional search fees were timely paid by the applicant. Consequently, this International Search Report is tricted to the invention first mentioned in the claims; it is covered by claims Nos.:
demark on I	Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/GB 97 /02838

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claim: 1 partly

IPNS complexed with Mn

2. Claim: 2 and 1 partly

IPNS complexed with Fe and ist substrate or an analogue of its substrate $% \left(\frac{1}{2}\right) =0$

3. Claims: 3-5 , 13

the use of the three dimensional structure of a member of the IPNS family of enzymes to modify another enzyme .

4. Claims: 6-11,14-15

Enzyme having significant sequence similarity to IPNS wherein at least one of the following amino acid residues is modified ,r87,y189,s183,y91,f285,q330,t331 v185,l106,c104,v217,l324,l317,i325,l321,s210,v272,l231,l223,p283,t221,f211,i187,v185,y189,r279,s281,n230,q225,n252,r287,r88, mutants of an enzyme having similarity to IPNS, gene encoding it, micro-organism containing the gene and their use in beta-lactam production.

5. Claim: 12

methods of preparation of an enzyme of the IPNS family in crystalline form consisting of maintaining the crystalline enzymes of the IPNS family under anaeorobic conditions .



information on patent family members

inter anal Application No PCT/GB 97/02838

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